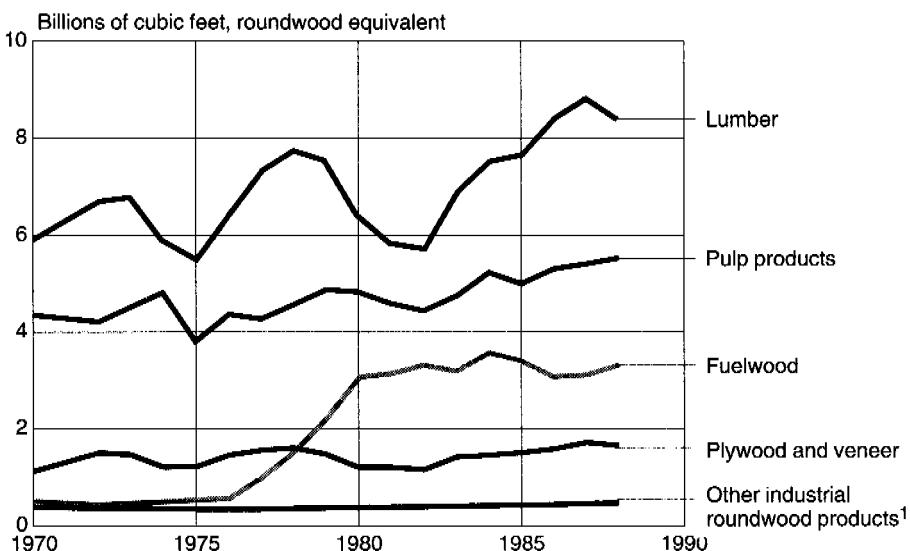
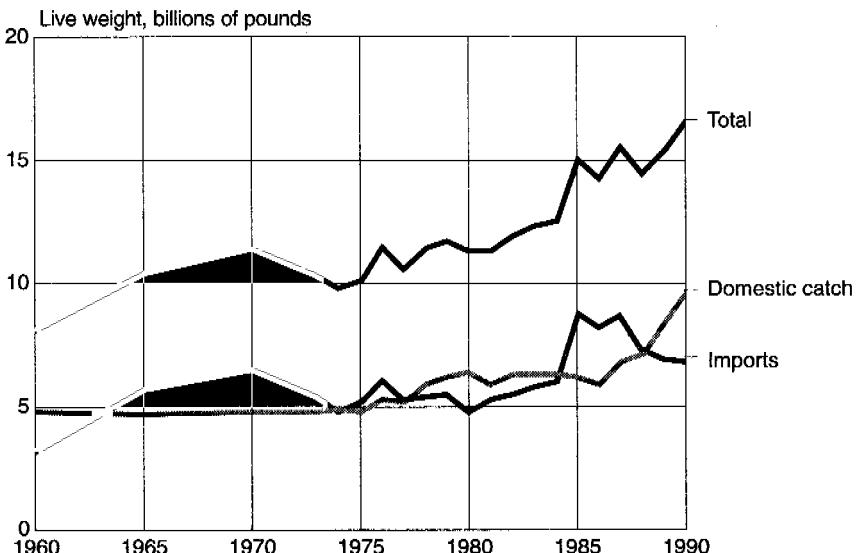


**Figure 24.1
Domestic Consumption of Selected
Timber Products: 1970 to 1988**



¹ Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, etc.
Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1136.

**Figure 24.2
Fishery Products—
Domestic Catch and Imports: 1960 to 1990**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1149.

Forests and Fisheries

This section presents data on the area, ownership, and timber resource of commercial timberland; forestry statistics covering the National Forests and Forest Service cooperative programs; product data for lumber, pulpwood, woodpulp, paper, and paperboard; and similar data. In addition, data are presented on commercial fishing and the fish processing industry.

The principal sources of data relating to forests and forest products are *An Analysis of the Timber Situation in the United States, 1989-2040, Part I: The Current Resource and Use Situation, and Part II: The Future Resource Situation*, forthcoming; *Forest Statistics of the United States, 1987*; *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-88*; *Land Areas of the National Forest System*, issued annually by the Forest Service of the Department of Agriculture; *Agricultural Statistics* issued by the Department of Agriculture; and reports of the census of manufactures (taken every 5 years) and the annual *Current Industrial Reports*, issued by the Bureau of the Census. Additional information is published in the monthly *Survey of Current Business* of the Bureau of Economic Analysis; and the annual *Wood Pulp and Fiber Statistics* and *The Statistics of Paper, Paperboard, and Wood Pulp* of the American Paper Institute, New York, NY.

The Bureau of the Census also collects data on foreign trade of forest products. The Bureau of Labor Statistics publishes monthly and annual statistics of producer prices for lumber.

The completeness and reliability of statistics on forests and forest products vary considerably. The data for forest land area and stand volumes are much more reliable for areas recently surveyed than for those for which only estimates are available. In general, more data are available for lumber and other manufactured products such as veneer and plywood, etc., than for the primary forest products such as poles and piling and fuelwood.

The principal sources of data relating to fisheries are *Fishery Statistics of the United States*, and *Fisheries of the*

In Brief

1991

Production:

Paper and board 81.0 mil. sh. tns

Consumption:

Recovered paper 23.5 mil. sh. tns

United States, both issued annually by the National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA).

The NMFS collects and disseminates data on commercial landings of fish and shellfish. Quarterly data are published on U.S. output of fish sticks, fish portions, and breaded shrimp. Annual reports include quantity and value of commercial landings of fish and shellfish, etc. Reports for the fish-processing industry include annual output of canned, packaged, and industrial products and, for the wholesaling and fish processing establishments, annual and seasonal employment, and number of firms, by product and State.

The Magnuson Fishery Conservation and Management Act of 1976 (Magnuson Act), Public Law 94-265 as amended, provides for the conservation and management of all fishery resources within the U.S. Exclusive Economic Zone (EEZ), except highly migratory species of tuna, and gives the Federal Government exclusive authority over domestic and foreign fisheries within 200 nautical miles of U.S. shores and over certain living marine resources beyond the EEZ. Within the EEZ, the total allowable level of foreign fishing, if any, is that portion of the "optimum yield" not harvested by U.S. vessels. Adjustments in the "optimum yield" level may occur periodically. For details, see *Fisheries of the United States, 1988*. The NMFS collects and disseminates data on catches by foreign fishing vessels in the EEZ.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

No. 1130. National Forest System Land and Purchases: 1970 to 1990

[Area as of June 30 except, beginning 1980, as of Sept. 30; purchases for years ending June 30, except as noted. Includes Puerto Rico. Prior to Oct. 1976, lands to be purchased under the Weeks Law and related acts were approved by the National Forest Reservation Commission which also set prices on such lands. With the passage of the National Forest Management Act, all functions of the Commission were transferred to the Secretary of Agriculture. Actual purchases are made by U.S. Department of Agriculture. See also *Historical Statistics, Colonial Times to 1970*, series L 10-14.]

ITEM	Unit	1970	1975	1980	1984	1985	1986	1987	1988	1989	1990
Gross area ¹	Mil. acres.	226	226	226	230	230	230	230	230	231	231
National forest system ²	Mil. acres.	187	188	187	191	191	191	191	191	191	191
Approved for purchase	1,000 acres	92	12	42	8	16	23	87	42	99	51
Average price per acre	Dollars	125	275	664	544	431	308	437	561	346	464
Total price	Mil. dol.	11.5	3.3	27.9	4.2	6.9	7.0	38.0	23.5	34.0	24.0
Purchases completed	1,000 acres	113	34	27	35	7	33	53	18	46	38
Average price per acre	Dollars	96	267	617	407	653	295	360	153	428	556
Total price	Mil. dol.	10.9	9.1	17.1	14.0	4.2	9.8	19.0	7.2	20.0	21.0
Gross area of purchase units	Mil. acres.	56	56	56	58	58	58	58	58	58	58
Purchase completed, net area ³	Mil. acres.	20	20	20	20	20	20	20	20	20	20
Average price per acre	Dollars	6	9	12	15	15	16	17	17	17	19
Total price	Mil. dol.	125	179	250	298	305	314	333	340	360	381

¹ Comprises all publicly and privately owned land within authorized boundaries of National forests. Purchase units, National grasslands, land utilization projects, research and experimental areas, and other areas. ² Federally owned land within the "Gross area." ³ Cumulative total. Under the March 1, 1911 Act of Congress (Weeks Law), as amended, and related acts.

Source: U.S. National Forest Reservation Commission, *Final Report to October 1976*; and U.S. Forest Service, *Land Areas of the National Forest System*, annual; and unpublished data.

No. 1131. National Forest System—Summary: 1970 to 1990

[For fiscal years ending in year shown; see text, section 9. Includes Alaska and Puerto Rico, except as noted. See *Historical Statistics, Colonial Times to 1970*, series J 33-34, for similar but not comparable grazing data, and L 15-31]

ITEM	Unit	1970	1980	1984	1985	1986	1987	1988	1989	1990
Timber cut, total value	Mil. dol.	309	737	764	725	790	1,019	1,243	1,313	1,191
Commercial and cost sales: ¹										
Volume	Mil. bd.	11,527	9,178	10,549	10,941	11,786	12,712	12,649	11,951	10,500
Value	Mil. dol.	308	730	760	721	787	1,016	1,240	1,310	1,188
Free use:										
Volume	Mil. bd.	179	2,070	570	399	308	209	223	214	151
Value ²	Mil. dol.	0.3	5.7	2.6	2.2	1.4	1.1	1.2	1.2	1.0
Misc. forest products:										
Value	Mil. dol.	0.7	1.1	1.7	1.7	1.6	1.9	2.0	2.2	2.6
Livestock grazing: ³										
Cattle and horses ⁴	1,000	1,607	1,521	1,521	1,545	1,491	1,410	1,313	1,526	1,206
Sheep and goats	1,000	2,105	1,328	1,129	1,183	1,168	1,134	1,087	972	974
Roads and trails:										
Road construction ⁵	Miles	942	925	1,667	1,903	1,252	2,394	1,352	866	857
Trail construction ^{5,6}	Miles	278	2,419	874	987	1,092	1,046	1,834	1,944	1,637
Receipts, total	Mil. dol.	300	703	637	636	832	898	980	1,051	971
Timber use	Mil. dol.	284	625	544	515	745	808	888	910	850
Grazing use	Mil. dol.	4	16	10	9	9	8	9	11	10
Special land use, etc	Mil. dol.	11	62	84	112	78	82	83	130	112
Payments to local govt. ⁷	Mil. dol.	73	240	235	229	271	295	326	368	368
25-percent fund ⁸	Mil. dol.	72	234	225	212	262	285	317	354	358
Other ⁹	Mil. dol.	1	7	10	17	9	10	8	15	10
Allotments to Forest Service, total ¹⁰	Mil. dol.	30	73	62	60	82	88	105	111	106
Roads and trails	Mil. dol.	29	66	58	56	78	84	92	96	91
Other	Mil. dol.	1	8	4	5	4	4	12	15	15

¹ Includes land exchanges. ² Includes some free use timber not reducible to board feet. ³ For 1970, data for livestock permitted to graze; 1980-89 for number actually grazed. Calendar-year data, prior to 1980. Excludes Puerto Rico. ⁴ Excludes animals under 6 months of age. 1970 includes swine. Includes burros beginning in 1980. ⁵ Includes reconstruction. ⁶ Beginning 1980, includes work accomplished by Human Resource Programs and volunteers. ⁷ Payments made in following year. ⁸ Includes Tongass Alaska suspense account. ⁹ Includes Arizona and New Mexico School Fund (through 1982), State of Minnesota, and receipts paid to counties under Bankhead-Jones Farm Tenant Act. ¹⁰ For use in following year.

Source: U.S. Forest Service. In *Agricultural Statistics*, annual, and unpublished data.

No. 1132. National Forest System Land—States and Other Areas: 1990

[In thousands of acres. As of Sept. 30. See also *Historical Statistics, Colonial Times to 1970*, series L 10-11]

STATE	Gross area within unit boundaries ¹	National forest system land ²	Other lands within unit boundaries	STATE	Gross area within unit boundaries ¹	National forest system land ²	Other lands within unit boundaries
Total	230,839	191,268	39,570	NV	6,009	5,743	266
AL	1,275	651	623	NH	825	720	105
AK	24,233	22,437	1,796	NM	10,367	9,320	1,046
AZ	11,889	11,242	647	NY	13	13	-
AR	3,490	2,495	995	NC	3,165	1,221	1,944
CA	24,434	20,588	3,845	ND	1,106	1,106	(Z)
CO	16,027	14,444	1,582	OH	833	191	642
CT	(Z)	(Z)	-	OK	461	296	165
FL	1,246	1,122	124	OR	17,496	15,634	1,862
GA	1,846	858	988	PA	743	512	231
HI	(Z)	(Z)	-	SC	1,376	605	770
ID	21,694	20,457	1,238	SD	2,342	1,997	345
IL	840	264	576	TN	1,212	626	586
IN	644	188	456	TX	1,994	753	1,241
KS	116	108	8	UT	9,128	8,041	1,086
KY	2,102	667	1,435	VT	630	327	302
LA	1,023	601	422	VA	3,226	1,642	1,584
ME	93	53	40	WA	10,045	9,147	898
MI	4,872	2,801	2,071	WV	1,861	1,021	840
MN	5,467	2,808	2,659	WI	2,023	1,513	510
MS	2,310	1,149	1,161	WY	9,704	9,255	449
MO	3,082	1,474	1,608	PR	56	28	28
MT	19,101	16,796	2,305	VI	(Z)	(Z)	-
NE	442	352	90				

¹ Represents zero. ² Less than 500 acres. ³ Comprises all publicly and privately owned land within authorized boundaries of National forests, Purchase units, National grasslands, Land utilization projects, Research and experimental areas, and Other areas. ⁴ Federally owned land within the "Gross area within unit boundaries."

Source: U.S. Forest Service, *Land Areas of the National Forest System*, annual.

No. 1133. Forest Land—Total and Timberland Area, Volume of Sawtimber, and Growing Stock: 1952 to 1987

[As of Jan. 1. See table 25 for composition of regions]

YEAR AND REGION	Total forest land (mil. acres)	TIMBERLAND, OWNERSHIP ¹				SAWTIMBER, NET VOLUME ³		GROWING STOCK, NET VOLUME ⁴	
		All owner- ships (mil. acres)	Feder- ally owned or man- aged ² (mil. acres)	State, county, and muni- cipal (mil. acres)	Private		Total (bil. bd. ft.)	Soft- wood (bil. bd. ft.)	Total (bil. cu. ft.)
					Total (mil. acres)	Per- cent of total			
United States, 1952	664	509	125	27	356	70.0	2,520	2,089	610
North	209	158	13	18	127	80.0	231	62	106
South	197	205	15	3	187	91.4	411	198	143
West	258	146	97	6	42	29.1	1,878	1,829	361
United States, 1962	759	515	125	27	363	70.4	2,558	2,062	659
North	178	160	13	18	130	80.9	268	74	131
South	220	209	15	3	191	91.4	494	250	168
West	360	146	97	6	42	28.9	1,795	1,738	361
United States, 1970	754	504	122	29	354	70.2	2,587	2,035	694
North	186	158	13	18	127	80.5	305	87	148
South	212	203	15	3	185	90.9	569	302	191
West	355	143	94	7	42	29.2	1,713	1,646	355
United States, 1977	737	491	113	31	347	70.6	2,635	2,021	725
North	178	157	12	19	126	80.4	350	102	166
South	207	198	15	3	180	90.6	648	345	215
West	352	136	85	9	41	30.1	1,637	1,574	344
United States, 1987	731	483	103	34	347	71.8	2,829	2,032	756
North	170	158	13	19	126	79.6	471	133	190
South	203	195	16	4	176	89.9	757	380	238
West	358	130	74	11	45	34.9	1,601	519	327

¹ Timberland is forest land that is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulation. Areas qualifying as timberland have the capability of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands. Currently inaccessible and inoperable areas are included.

² Includes Indian lands. ³ Sawtimber is timber suitable for sawing into lumber. Live trees of commercial species containing at least one 12-foot sawlog or two noncontiguous 8-foot logs, and meeting regional specifications for freedom from defect. Softwood trees must be at least 9.0-inches diameter, and hardwood trees must be at least 11.0-inches diameter at 4 1/2 feet above ground. International 1/4-inch rule. ⁴ Live trees of commercial species meeting specified standards of quality or vigor. Cull trees are excluded. Includes only trees 5.0-inches diameter or larger at 4 1/2 feet above ground.

Source: U.S. Forest Service, *Forest Statistics of the United States*, 1987.

Forests and Fisheries

No. 1134. Timber-Based Industries—Summary of Manufactures: 1987 to 1990

[Data based on 1987 Standard Industrial Classification Manual, published by the Office of Management and Budget, see text, section 27. Based on Census of Manufactures, except where noted. N.e.c. = Not elsewhere classified]

SIC ¹ code	INDUSTRY	1987		1989		1990 ²				
		All employees		Value of ship- ments (bil. dol.)	All employees		Value of ship- ments (bil. dol.)	All employees		
		Num- ber (1,000)	Payroll (mil. dol.)		Num- ber (1,000)	Payroll (mil. dol.)		Num- ber (1,000)	Payroll (mil. dol.)	
242	Logging and sawmills	266.0	4,805	30.1	256.8	5,040	32.5	254.2	5,076	32.2
2411	Logging	85.7	1,516	10.9	81.7	1,596	12.0	83.4	1,647	12.2
2421	Sawmills/planing mills, gen.	148.2	2,817	17.4	143.7	2,937	18.5	138.9	2,913	17.9
2426	Hardwood dimension and flooring mills	29.9	441	1.7	29.2	472	1.8	29.3	475	1.8
2429	Special product sawmills, n.e.c.	2.2	33	0.1	2.3	36	0.2	2.5	41	0.2
243	Millwork and veneer ³	240.0	4,657	22.6	233.0	4,866	23.7	229.4	4,823	23.2
2431	Millwork	89.0	1,810	9.3	90.9	1,977	9.7	90.5	1,961	9.5
2434	Wood kitchen cabinets	67.0	1,185	4.4	61.6	1,197	4.4	62.8	1,217	4.6
2435	Hardwood veneer and plywood	20.5	340	2.1	20.1	356	2.2	18.7	335	2.1
2436	Softwood veneer and plywood	38.9	888	4.9	36.5	888	5.3	35.6	881	5.0
2439	Structural wood members, n.e.c.	24.6	435	1.9	23.9	449	2.1	21.8	429	2.0
244	Wood containers	37.0	483	2.1	42.2	600	2.6	41.5	636	2.9
2441	Nailed and lock corner wood boxes and shoo	5.9	85	0.3	6.2	95	0.4	6.0	98	0.4
2448	Wood pallets and skids	25.7	328	1.5	29.1	395	1.8	28.3	417	1.9
2449	Wood containers, n.e.c.	5.4	70	0.2	6.9	111	0.4	7.2	122	0.5
245	Wood buildings and mobile homes	65.3	1,208	6.6	62.8	1,211	6.4	61.4	1,217	6.5
2451	Mobile homes	39.9	734	4.1	39.9	769	4.1	38.8	769	4.2
2452	Prefab. wood bldgs/components	25.4	473	2.5	22.9	442	2.3	22.6	448	2.3
249	Miscellaneous wood products	89.9	1,536	8.3	91.0	1,643	9.2	96.4	1,745	9.6
2491	Wood preserving	11.8	208	2.2	12.1	223	2.4	13.0	246	2.6
2493	Reconstituted wood products	22.0	505	2.9	22.2	547	3.2	22.3	554	3.0
2499	Wood products, n.e.c.	56.1	824	3.3	56.6	873	3.6	61.1	945	3.9
261	Pulp mills	14.2	535	4.3	15.2	603	6.4	16.1	668	6.2
262	Paper mills	129.1	4,597	28.9	130.1	4,927	35.4	130.1	5,062	35.3
263	Paperboard mills	52.3	1,859	13.7	52.1	1,958	16.3	53.1	2,049	15.9
265	Paperboard containers and boxes	193.6	4,618	25.9	202.3	5,144	30.5	200.3	5,245	30.5
2652	Setup paperboard boxes	8.7	131	0.4	8.7	141	0.5	8.8	146	0.6
2653	Corrugated and solid fiber boxes	105.8	2,610	16.1	111.1	2,928	18.9	110.1	2,984	18.6
2655	Fiber cans, tubes, drums, and similar prod.	12.6	281	1.5	13.3	329	1.8	13.3	341	1.9
2656	Sanitary food containers, except folding	15.8	340	2.1	17.2	383	2.5	17.5	392	2.5
2657	Folding paperboard boxes, including sanitary	50.7	1,256	5.7	51.8	1,364	6.7	50.7	1,382	7.0
267	Converted paper and paperboard products ⁴	222.1	5,251	36.2	229.9	5,765	42.8	228.5	5,923	43.5
2671	Packaging paper and plastic film	15.0	406	2.4	16.3	458	2.9	16.4	489	3.0
2672	Coated and laminated paper, n.e.c.	30.9	839	5.9	35.9	973	7.1	35.0	985	7.1
2673	Plastics, foil, and coated paper bags	36.6	784	4.6	39.0	882	5.6	37.4	870	5.5
2674	Uncoated paper and multiwall bags	17.1	348	2.4	17.0	358	2.8	16.9	374	2.8
2675	Die-cut paper and paperboard and cardboard	15.7	308	1.7	16.1	384	2.0	16.8	395	2.1
2676	Sanitary paper products	38.4	1,155	11.7	37.8	1,235	14.3	39.0	1,299	14.7
2677	Envelopes	27.6	613	2.6	27.3	645	2.8	26.1	648	2.8
2678	Stationery, tablets, and related products	11.2	206	1.2	10.5	203	1.3	10.1	203	1.3
2679	Converted paper and paperboard products, n.e.c.	29.6	593	3.6	30.1	627	3.8	30.7	659	4.1

¹ Standard Industrial Classification code; see text, section 13. ² Source: U.S. Bureau of the Census, Annual Survey of Manufactures. ³ Includes plywood and structural members. ⁴ Except containers and boxes.

Source: Except as noted, U.S. Bureau of the Census, *Census of Manufactures, 1987 Final Industry Series*, MC87-I-24A-D and MC87-I-26A-C.

No. 1135. Timber-Based Industries—Employment and Average Hourly Earnings: 1970 to 1991

[Data for production workers.]

SIC ¹ code	ITEM	EMPLOYEES (1,000)						EARNINGS (dollars)					
		1970	1980	1985	1989	1990	1991	1970	1980	1985	1989	1990	1991
24	Lumber and wood products ²	564	587	593	628	610	571	2.97	6.57	8.25	8.84	9.09	9.28
241	Logging	(NA)	71	67	72	70	66	(NA)	8.64	10.92	11.13	11.23	11.15
242	Sawmills and planing mills	196	190	172	177	174	164	2.84	6.70	8.52	9.03	9.23	9.42
243	Millwork, plywood, and structural members	(NA)	170	195	220	213	195	(NA)	6.44	8.09	8.73	9.05	9.30
26	Paper and allied products	540	519	509	522	524	520	3.44	7.84	10.83	11.96	12.30	12.70
25	Furniture and fixtures	362	376	394	419	403	378	2.77	5.49	7.17	8.25	8.52	8.77

NA Not available. ¹ 1987 Standard Industrial Classification; see text, section 27. ² Includes other industries, not shown separately.

Source: U.S. Bureau of Labor Statistics, Bulletin 2370 Supplement to Employment and Earnings, July 1991, and *Employment and Earnings*, monthly.

No. 1136. Timber Products—Production, Foreign Trade, and Consumption, by Type of Product: 1970 to 1988

[In millions of cubic feet, roundwood equivalent. See also *Historical Statistics, Colonial Times to 1970*, series L 72-86]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988, pref.
Industrial roundwood:										
Domestic production ¹	11,105	10,575	12,120	10,910	12,065	12,725	12,515	13,845	14,670	14,985
Softwoods	8,635	8,380	9,290	8,450	9,285	9,790	9,690	10,595	11,390	11,430
Hardwoods	2,470	2,195	2,825	2,465	2,780	2,935	2,825	3,250	3,280	3,555
Imports	2,430	2,215	3,250	3,015	3,710	4,165	4,340	4,375	4,575	4,445
Exports	1,540	1,685	2,350	1,995	2,110	2,060	2,070	2,300	2,650	3,200
Consumption ²	11,995	11,105	13,020	11,930	13,665	14,830	14,785	15,920	16,595	16,230
Softwoods	9,425	8,875	10,345	9,575	10,975	11,965	11,960	12,735	13,430	12,970
Hardwoods	2,565	2,230	2,675	2,355	2,690	2,865	2,825	3,180	3,165	3,260
Lumber:										
Domestic production	5,215	4,890	5,300	4,635	5,370	5,770	5,665	6,545	6,990	6,920
Imports	955	930	1,540	1,460	1,915	2,130	2,345	2,285	2,380	2,225
Exports	195	255	395	320	360	340	305	385	510	720
Consumption	5,970	5,565	8,450	5,780	6,925	7,560	7,700	8,445	8,860	8,425
Plywood and veneer:										
Domestic production	1,020	1,165	1,175	1,135	1,365	1,400	1,420	1,505	1,650	1,630
Imports	170	170	120	115	160	145	165	185	190	165
Exports	15	70	45	50	65	45	40	65	80	100
Consumption	1,170	1,265	1,250	1,200	1,460	1,500	1,550	1,625	1,760	1,695
Pulp products:										
Domestic production	3,835	3,485	4,390	3,980	4,165	4,355	4,165	4,545	4,670	4,885
Imports	1,280	1,105	1,585	1,415	1,605	1,860	1,810	1,895	1,985	2,045
Exports	720	715	1,070	900	965	930	920	1,080	1,195	1,345
Consumption	4,400	3,875	4,865	4,495	4,805	5,290	5,055	5,360	5,465	5,585
Logs:										
Imports	25	15	25	20	30	30	20	15	15	15
Exports	465	455	560	550	565	600	655	620	705	825
Pulpwood chips, exports	145	195	275	175	155	145	145	150	160	215
Other industrial prod. ³ consumption	425	385	415	435	445	455	465	475	495	510
Fuelwood consumption	540	570	3,105	3,355	3,235	3,620	3,450	3,115	3,150	3,380

¹ Includes log exports. ² Includes log imports. ³ Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, etc.

No. 1137. Timber Products—Per Capita Consumption: 1970 to 1988

[Based on total population estimated as of July 1. See also *Historical Statistics, Colonial Times to 1970*, series L 87-97]

PRODUCT	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988, pref.
All products	Cu. ft.	61.1	54.0	70.8	65.7	72.0	77.9	76.2	78.8	81.0	79.5
Industrial roundwood	Cu. ft.	58.5	51.4	57.2	51.3	58.2	62.6	61.8	65.9	68.0	65.9
Lumber	Cu. ft.	29.1	25.8	28.3	24.9	29.5	31.9	32.2	35.0	36.3	34.2
Plywood and veneer	Cu. ft.	5.7	5.9	5.5	5.2	6.2	6.3	6.5	6.7	7.2	6.9
Pulp products	Cu. ft.	21.4	17.9	21.4	19.3	20.5	22.3	21.1	22.2	22.4	22.7
Other products	Cu. ft.	2.1	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.1
Fuelwood	Cu. ft.	2.6	2.6	13.6	14.4	13.8	15.3	14.4	12.9	12.9	13.6
Lumber	Bd. ft.	193	171	188	161	190	205	207	224	233	221
Plywood and veneer	Bd. ft.	34	32	30	28	34	34	35	37	39	37
Pulp products	Cords (128 cu. ft.)	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3

Source of tables 1136 and 1137: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-88*, annual.

Forests and Fisheries

No. 1138. Lumber Consumption, by Species Group and End Use: 1962 to 1986

[In million board feet, except per capita in board feet. Per capita consumption based on estimated resident population as of July 1]

ITEM	1962	1970	1976	1986	END-USE	1962	1970	1976	1986
Total	39,078	39,869	44,653	57,203	New housing	14,160	13,350	17,000	19,320
Per capita	210	194	205	237	Residential upkeep and improvements	4,330	4,980	6,260	9,930
Species group:					New non-residential construction ¹	4,200	4,700	4,470	5,310
Softwoods	30,773	31,959	36,627	47,094	Manufacturing	4,540	4,670	4,865	4,805
Hardwoods	8,305	7,910	8,026	10,109	Shipping	4,550	5,725	5,915	6,785
					Other ²	7,298	6,444	6,143	11,053

¹ In addition to new construction, includes railroad ties laid as replacements in existing track and lumber used by railroads for railcar repair. ² Includes upkeep and improvement of non-residential buildings and structures; made-at-home projects, such as furniture, boats, and picnic tables; made-on-the-job items such as advertising and display structures; and miscellaneous products and uses.

Source: U.S. Forest Service, *Analysis of the Timber Situation in the United States: 1989-2040*, forthcoming.

No. 1139. Selected Timber Products—Producer Price Indexes: 1980 to 1990

[See also *Historical Statistics, Colonial Times to 1970*, series L 206-210]

PRODUCT	Unit	1980	1985	1987	1988	1989	1990
Lumber and wood products, except furniture	Dec. 1984=100	(NA)	100.3	105.3	109.2	115.3	117.0
Logging camps and logging contractors	Dec. 1981=100	94.8	100.4	112.8	128.0	135.6	
Sawmills and planing mills	Dec. 1984=100	(NA)	99.7	106.7	110.2	114.6	113.7
Millwork, veneer, and plywood ¹	Dec. 1984=100	(NA)	99.9	105.3	107.5	114.1	115.4
Softwood plywood	Dec. 1980=100	91.4	90.0	93.8	93.0	104.8	102.5
Wood containers	June 1985=100	(NA)	(NA)	101.3	103.8	109.7	113.9
Wood buildings and mobile homes	Dec. 1984=100	100.6	103.6	107.9	112.1	115.5	
Particleboard	Dec. 1982=100	92.1	110.0	120.3	124.6	127.8	117.1
Paper and allied products	Dec. 1984=100	(NA)	98.8	104.9	113.7	120.8	121.9
Pulp mills	Dec. 1982=100	105.5	100.9	117.0	141.7	161.3	153.8
Paper mill products; except building paper	June 1981=100	93.5	109.5	115.5	127.4	134.6	134.0
Paperboard mills	Dec. 1982=100	97.3	112.0	126.2	141.6	149.9	146.0
Converted paper and paperboard products ²	June 1985=100	(NA)	(NA)	101.4	105.7	110.5	111.3
Paperboard containers and boxes	Dec. 1984=100	98.4	104.3	111.7	117.2	117.7	
Building paper and building board mills	Dec. 1985=100	(NA)	(NA)	104.2	108.8	114.4	(NA)

NA Not available. ¹ Includes structural wood members. ² Excludes containers and boxes.

Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly.

No. 1140. Selected Species—Stumpage Prices In Current and Constant (1982) Dollars: 1975 to 1990

[In dollars per 1,000 board feet. Stumpage prices are based on sales of sawtimber from National Forests. See also *Historical Statistics, Colonial Times to 1970*, series L 199-205]

SPECIES	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
CURRENT DOLLARS												
Softwoods:												
Douglas-fir ¹	170	432	350	118	162	133	126	161	190	256	390	466
Southern pine ²	57	155	172	127	141	139	91	104	136	142	131	127
Sugar pine ³	99	667	225	72	138	84	110	170	288	260	289	285
Ponderosa pine ^{3,4}	71	206	195	67	104	123	101	157	209	182	292	252
Western hemlock ⁵	69	213	163	45	62	62	51	75	105	163	223	203
Hardwoods:												
All eastern hardwoods ⁶	34	52	51	56	60	90	65	70	88	151	136	146
Oak, white, red, and black ⁷	30	66	63	71	88	145	95	108	147	146	179	188
Maple, sugar ⁷	42	70	68	71	55	81	70	66	81	108	129	135
CONSTANT (1982) DOLLARS⁸												
Softwoods:												
Douglas-fir ¹	290	481	357	118	160	128	122	160	185	240	347	401
Southern pine ²	98	173	176	127	139	134	88	103	132	133	117	109
Sugar pine ³	170	742	230	72	136	81	106	169	280	244	258	245
Ponderosa pine ^{3,4}	122	230	199	67	103	118	98	156	204	170	260	217
Western hemlock ⁵	118	237	167	45	61	60	49	75	103	152	199	175
Hardwoods:												
All eastern hardwoods ⁶	58	58	52	56	59	87	63	70	86	142	121	126
Oak, white, red, and black ⁸	51	73	65	71	87	140	92	108	143	137	159	162
Maple, sugar ⁷	72	78	69	71	54	78	68	66	78	101	115	116

¹ Western Washington and western Oregon. ² Southern region. ³ Pacific Southwest region (formerly California region). ⁴ Includes Jeffrey pine. ⁵ Pacific Northwest region. ⁶ Eastern and Southern regions. ⁷ Eastern region. ⁸ Deflated by the producer price index, all commodities.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-89*, annual, forthcoming.

Lumber Production and Consumption

675

No. 1141. Lumber Production and Consumption, by Kind of Wood: 1980 to 1990

[In millions of board feet, except as indicated. Based on sample survey; see source for sampling variability. See also *Historical Statistics, Colonial Times to 1970*, series L 98-112 and L 122-137.]

ITEM	1980	1983	1984	1985	1986	1987	1988	1989	1990 ¹	1990 ²
Total production	35,354	34,572	37,065	36,445	41,999	44,886	44,576	43,576	43,942	41,204
Softwoods ^{3,4}	28,239	28,927	30,801	30,479	34,815	37,410	36,845	36,040	36,602	33,692
Cedar	722	744	752	759	880	924	863	828	965	944
Douglas fir	6,853	6,434	7,809	7,751	9,600	10,422	9,986	10,045	8,888	7,614
Hemlock	1,855	1,316	(NA)	x 3,412						
Ponderosa pine	3,268	2,869	3,679	3,773	3,967	4,125	3,940	3,914	3,744	3,744
Redwood	770	852	999	1,155	984	1,157	1,157	1,048	1,096	1,085
Southern yellow pine ⁴	8,217	10,181	10,648	10,230	11,443	12,043	12,474	12,031	13,131	12,921
White fir ⁵	1,643	1,316	2,017	2,272	2,659	2,899	2,919	3,296	3,221	2,808
Hardwoods ^{3,4}	7,115	5,644	6,264	5,966	7,184	7,476	7,731	7,536	7,340	7,512
Ash	(S)	224	219	218	257	265	293	278	217	189
Beech	183	112	111	89	125	116	120	105	83	83
Cottonwood and aspen	303	197	133	216	247	235	234	217	187	201
Elm	149	(NA)	(NA)							
Maple	6225	524	538	532	587	636	619	589	544	596
Oak	3,356	2,163	2,786	2,793	3,410	3,804	3,790	3,546	2,640	2,556
Sweet gum ⁷	371	278	300	293	375	330	356	306	246	262
Yellow poplar	661	475	569	544	724	805	828	802	674	721
Domestic consumption	44,536	48,674	52,661	53,468	57,448	61,754	58,834	58,847	54,482	(X)
Percent net imports ⁸	16.8	20.6	21.9	24.4	21.3	19.4	16.5	16.7	15.7	(X)
Softwoods	33,812	39,611	42,832	44,240	47,492	50,558	48,513	47,975	45,003	(X)
Mill stocks, yearend	4,228	4,606	4,594	4,765	4,905	4,840	4,999	4,888	4,854	(X)
Exports	1,956	1,745	1,599	1,515	1,877	2,423	3,264	3,319	2,970	(X)
Imports	9,540	11,977	13,270	14,608	14,238	14,680	13,806	13,638	12,148	(X)
Hardwoods	10,724	9,063	9,829	9,228	9,956	11,196	10,321	10,872	9,480	(X)
Mill stocks, yearend	1,572	1,334	1,561	1,719	1,636	(NA)	(NA)	(NA)	(NA)	(X)
Exports	379	478	467	397	498	775	1,232	856	878	(X)
Imports	293	261	328	364	347	511	390	375	255	(X)

NA Not available. S Figure does not meet publication standards. X Not applicable. ¹ Based on old sample and represent the bridge between the old and new sample. ² New sample, based on the new MA-24T sample. ³ Includes types not shown separately. ⁴ Beginning 1986, data not directly comparable to previous years due to inclusion of 200 sawmills in the survey for the first time; see source. ⁵ Beginning 1988, also includes hemfir, and other western truefirs. ⁶ Excludes hard maple. ⁷ Red and sap. ⁸ Imports minus exports.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24T, annual.

No. 1142. Lumber Production, by Geographic Area: 1970 to 1988

[In billion board feet. Data based in part on a sample of sawmills and are subject to sampling variability; see source. See *Historical Statistics, Colonial Times to 1970*, series L 113-121, for data by regions]

SECTION AND DIVISION	1970	1975	1978	1979	1980	1982	1983	1984	1985	1986	1987	1988
United States	34.7	32.6	40.5	40.6	35.4	30.0	34.6	37.1	36.4	42.0	44.9	44.7
North ^{2,3}	4.4	4.1	(NA)	(NA)	(NA)	3.8	4.3	4.5	4.2	4.9	5.3	5.2
Hardwood	3.4	3.0	(NA)	(NA)	(NA)	2.7	3.0	3.3	3.0	3.6	3.8	3.9
Softwood	1.0	1.1	(NA)	(NA)	(NA)	1.1	1.3	1.2	1.2	1.4	1.5	1.4
South ²	10.8	9.7	(NA)	(NA)	(NA)	10.8	12.7	13.4	13.0	15.1	15.7	16.3
Hardwood	3.6	2.7	(NA)	(NA)	(NA)	2.0	2.4	2.8	2.7	3.4	3.4	3.6
Softwood	7.2	7.0	(NA)	(NA)	(NA)	8.8	10.3	10.7	10.2	11.7	12.3	12.7
West ²	19.4	18.8	21.7	21.1	17.2	15.4	17.6	19.1	19.3	22.0	23.9	23.2
Hardwood	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Softwood	19.3	18.6	21.4	20.9	16.9	15.1	17.4	19.0	19.1	21.7	23.6	22.9
New England	0.7	0.8	1.0	1.0	1.1	1.0	1.2	1.1	1.1	1.2	1.2	1.2
Middle Atlantic	0.8	0.7	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.9	0.9	0.9
East North Central	1.2	1.1	1.4	1.4	1.3	1.1	1.2	1.3	1.3	1.5	1.6	1.5
West North Central	0.6	0.5	0.7	0.6	0.6	0.3	0.4	0.4	0.4	0.6	0.7	0.6
South Atlantic	5.2	4.7	5.4	5.8	5.2	5.4	6.5	6.7	6.4	7.4	7.7	8.1
East South Central	3.4	3.0	3.7	3.6	3.2	3.2	3.8	4.2	4.1	5.0	5.3	5.3
West South Central	3.2	3.0	3.6	3.2	2.9	2.8	3.1	3.3	3.1	3.4	3.7	3.9
Mountain	4.2	3.9	4.7	4.5	3.8	3.3	3.8	4.4	4.3	4.8	(*)	(*)
Pacific	15.3	14.8	17.0	16.6	13.4	12.2	13.6	14.8	14.8	17.0	23.9	23.2

NA Not available. ¹ Includes amounts not specified by division. ² Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-88*, annual. Sections are as defined by the Forest Service. ³ Includes Kentucky.

⁴ Included with Pacific. ⁵ Includes Mountain.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24T, annual.

No. 1143. Wood Products—Production: 1970 to 1990

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990, prel.
Hardwood flooring	Mil. bd. ft.	907	99	78	98	110	122	145	174	193	206	205
Softwood plywood	Bil. sq. ft., 3/8"	14.1	15.1	15.5	18.3	18.9	19.3	20.4	21.1	22.9	21.4	20.7
Insulation boards	1,000 short tons	1,219	1,249	1,051	713	785	735	735	605	529	460	474
Hardboard	Mil. sq. ft., 1/8"	4,340	5,681	6,140	7,303	6,837	6,900	5,822	5,458	5,118	5,196	5,025
Particleboard	Mil. sq. ft., 3/4"	1,731	2,503	2,950	3,009	3,196	3,331	3,603	3,706	3,829	3,858	3,806

¹ Beginning 1983, data are for shipments.

Source: U.S. Dept. of Commerce, International Trade Administration, *Forest Products Review*, monthly (discontinued April 1983); and unpublished data. Based on reports of U.S. Bureau of the Census, National Oak Flooring Manufacturers Association and National Particleboard Association.

No. 1144. Paper and Paperboard—Production and Consumption: 1970 to 1991

[In millions of short tons. See also *Historical Statistics, Colonial Times to 1970*, series L 172, L 174, and L 178-191]

ITEM	PRODUCTION						CONSUMPTION ¹					
	1970	1980	1985	1989	1990	1991	1970	1980	1985	1989	1990	1991
Total paper and paperboard ..	51.7	63.6	68.7	78.4	80.4	81.0	56.0	67.2	76.1	85.2	86.7	84.8
Paper: Newsprint ..	3.5	4.7	5.4	6.1	6.6	6.8	9.8	11.4	12.8	13.1	13.3	12.5
Coated printing, converting ..	3.2	4.6	5.9	7.2	7.5	7.3	3.2	4.6	6.3	7.8	8.3	7.8
Uncoated free sheet ..	5.1	8.0	9.7	11.1	11.5	11.6	5.1	8.0	10.0	11.5	12.0	11.9
Other printing, writing, etc. ..	2.6	2.9	2.9	3.3	3.3	3.2	2.8	3.5	4.4	5.1	5.2	5.0
Packaging and industrial converting ..	5.3	5.5	5.2	4.9	4.6	4.5	5.1	5.2	5.2	5.0	4.7	4.6
Tissue and other machine creped ..	3.7	4.4	4.9	5.6	5.8	5.7	3.7	4.4	5.0	5.7	5.9	5.7
Paperboard: Unbleached kraft ..	11.5	15.3	16.4	19.5	20.4	20.9	19.9	13.0	14.6	17.2	17.8	17.8
Bleached kraft ..	3.3	3.8	3.9	4.5	4.4	4.6	3.2	3.3	3.4	3.8	3.7	3.8
Semicentiful ..	3.5	4.7	5.1	5.7	5.7	5.7	3.4	4.4	5.0	5.7	5.7	5.6
Recycled finish ..	7.0	7.1	7.6	8.8	9.0	9.1	7.0	7.0	7.6	9.1	9.3	9.5
Construction paper and board ² ..	3.0	2.6	3.1	3.6	3.6	3.6	3.0	3.0	2.0	3.1	3.1	3.1

¹ Total consumption of paper and paperboard includes net imports of paper and paperboard conot available by grade.

2 Source: 1970-80, U.S. Bureau of the Census, *Current Industrial Reports*. Includes wetately 100,000-160,000 tons per year.

3 Estimated.

Source: Except as noted, American Paper Institute, Inc., New York, NY, *Statistics of Paper, Paperboard, and Woodpulp*, annual.

No. 1145. Newsprint—Production, Stocks, Consumption, Imports, and Price Index: 1970 to 1990

[In thousands of metric tons, except price index and imports (imports in short tons). See also *Historical Statistics, Colonial Times to 1970*, series L 198-198]

COUNTRY AND ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990
Canada: Production ..	7,808	6,966	8,625	8,486	9,013	8,988	9,289	9,669	9,840	9,640	9,068
Shipments from mills ..	7,795	7,010	8,622	8,439	9,018	8,996	9,302	9,757	9,740	9,607	9,074
Stocks at mills, end of year ..	214	86	165	303	298	290	277	189	288	321	315
United States:											
Estimated consumption ¹ ..	8,805	8,395	10,088	10,529	11,349	11,507	11,873	12,303	12,244	12,241	12,127
Production ..	3,142	3,348	4,239	4,688	5,025	4,924	5,107	5,300	5,427	5,523	5,997
Shipments from mills ..	3,136	3,347	4,234	4,674	5,065	4,927	5,115	5,310	5,415	5,515	6,007
Stocks, end of year: At mills ..	30	19	21	99	60	57	49	36	48	56	46
At and in transit to publishers ..	680	666	732	790	874	910	849	900	933	749	802
Imports ² ..	6,635	5,847	7,280	6,919	7,899	8,472	8,589	8,976	8,592	8,765	(NA)
Producer price index (1982=100) ..	34.1	58.3	88.5	95.9	102.3	105.3	103.3	112.3	127.6	122.5	119.5

NA Not available. ¹ By all users. Based on American Paper Institute data. ² Source: Reports of U.S. Bureau of the Census.

Includes Puerto Rico and beginning 1983, Virgin Islands. Average for 11 months.

Source: Except as noted, U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly. Data from American Paper Institute, Inc., New York, NY, and Canadian Pulp & Paper Association.

No. 1146. Recovered Paper Utilization and Recovery Rates: 1970 to 1991

[In millions of short tons, except percent. Recovery rate is ratio of total recovered paper to new supply. Recovered paper utilization is the ratio of recovered paper consumption at paper and board mills to paper and board production. See *Historical Statistics, Colonial Times to 1970*, series L 175, for U.S. wastepaper consumption]

ITEM	1970	1980	1984	1985	1986	1987	1988	1989	1990	1991
Paper and board, production ¹ ..	51.7	63.5	70.2	68.7	72.5	75.9	78.1	78.4	80.4	81.0
Recovered paper consumption ..	11.8	14.9	16.7	16.4	17.9	18.7	19.7	20.2	21.7	23.5
Recovered paper utilization rate (percent) ..	22.8	23.5	23.8	23.8	24.7	24.6	25.2	25.8	27.1	29.0
Other recovered paper uses ² ..	0.42	0.47	0.46	0.53	0.59	0.66	0.70	0.72	1.00	1.10
Recovered paper exports ..	0.41	2.64	3.46	3.56	4.09	4.81	5.95	6.31	6.51	6.60
Total paper recovered ..	12.6	17.9	20.5	20.4	22.5	24.0	26.2	27.1	29.1	31.1
Paper and board, new supply ³ ..	56.0	67.2	76.9	76.1	79.8	83.5	85.5	85.2	86.7	84.8
Recovery rate (percent) ..	22.4	26.7	26.7	28.8	28.2	28.8	30.6	31.8	33.6	36.7

¹ Excludes hard pressed board; includes construction paper and board, and wet machine board. ² Estimated. ³ Excludes production of hard pressed board.

Source: American Paper Institute, Inc., New York, NY, *Statistics of Paper, Paperboard, and Woodpulp*, annual; and unpublished data.

No. 1147. Selected Wood Products—Production and Consumption: 1970 to 1989

[See also *Historical Statistics, Colonial Times to 1970*, series L 151-170]

ITEM	Unit	1970	1975	1980	1984	1985	1986	1987	1988	1989
PULPWOOD										
Receipts, total	Mil. cords ¹	68.9	65.4	81.0	88.0	85.4	90.6	93.9	95.1	97.0
Softwood	Mil. cords ¹	52.4	49.3	60.2	62.9	60.2	63.3	65.3	65.8	67.1
Hardwood	Mil. cords ¹	16.5	16.2	20.8	25.2	25.1	27.3	28.6	29.3	29.9
Consumption, total	Mil. cords ¹	67.6	65.4	79.7	87.0	84.8	91.1	92.4	95.3	96.1
Softwood	Mil. cords ¹	51.3	48.9	58.8	62.0	59.7	63.1	64.2	65.9	66.3
Hardwood	Mil. cords ¹	16.3	16.5	20.9	24.9	25.1	26.1	28.2	29.4	29.7
Inventories ²	Mil. cords ¹	6.6	6.6	6.7	5.2	5.1	4.7	5.6	5.3	5.8
WOODPULP										
Production	Mil. short tons	43.9	43.1	53.0	57.8	57.7	60.6	62.4	64.1	64.6
Consumption, total	Mil. short tons	43.2	42.4	52.4	57.5	56.6	60.0	61.2	62.8	62.7
Own pulp	Mil. short tons	38.9	38.5	46.6	50.3	49.7	52.6	53.8	54.9	54.9
Purchased pulp	Mil. short tons	4.3	3.9	5.9	7.2	7.0	7.5	7.4	7.9	7.8
PLYWOOD										
Softwood:										
Production	Mil. sq. ft. ⁴	14,149	15,706	15,483	18,865	19,341	20,363	22,312	22,233	20,919
Consumption, total	Mil. sq. ft. ⁴	(NA)	(NA)	15,145	18,526	19,122	19,880	21,503	22,277	20,904
Value	Mil. dol.	949	(NA)	2,582	2,995	3,080	3,237	3,483	3,513	3,734
Hardwood:										
Production	Mil. sq. ft. ⁵	1,904	1,280	1,311	1,185	1,016	1,088	1,256	1,217	1,213
Consumption, total	Mil. sq. ft. ⁵	5,772	4,970	3,416	3,831	4,311	4,884	4,918	4,193	(NA)
Value	Mil. dol.	516	586	977	1,199	1,192	1,320	1,471	1,405	1,392

NA Not available. ¹ Standard cords. 128 cubic feet roughwood bases. ² As of Dec. 31. ³ In the manufacture of paper and board. ⁴ 3/8" basis. ⁵ Surface measure.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA26-A, MA24-H, and MA24-F.

No. 1148. Selected Timber Products—Imports and Exports: 1970 to 1989

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
IMPORTS¹											
Lumber, total ²	Mil. bd. ft.	6,114	9,866	9,360	12,254	13,632	14,996	14,619	15,234	14,226	15,277
From Canada	Percent	96.0	97.5	98.2	98.3	97.9	97.6	97.5	96.9	97.5	91.3
Softwoods	Mil. bd. ft.	5,778	9,573	9,150	11,993	13,304	14,632	14,272	14,723	13,841	14,928
Value	Mil. dol.	434	1,826	1,624	2,569	2,681	2,898	2,969	3,060	2,939	2,875
Hardwoods	Mil. bd. ft.	337	293	211	260	328	364	347	511	386	349
Value	Mil. dol.	62	152	104	134	173	180	168	273	238	152
Logs, total	Mil. bd. ft. ³	144	126	117	165	147	99	78	83	68	42
From Canada	Percent	79.6	97.4	98.6	97.9	97.4	81.8	77.9	91.6	91.9	61.5
Softwoods	Mil. bd. ft. ³	107	114	99	142	117	71	52	69	56	24
Value	Mil. dol.	9	17	23	24	15	17	7	19	15	12
Hardwoods	Mil. bd. ft. ³	38	13	18	23	30	28	26	14	12	18
Value	Mil. dol.	5	3	3	3	5	4	4	3	3	17
Paper and board ⁴	1,000 tons	7,115	8,780	8,024	8,986	11,075	11,522	11,936	12,837	13,110	13,100
Value	Mil. dol.	1,039	3,418	3,692	4,019	5,324	5,698	6,036	6,928	8,002	8,330
Woodpulp	1,000 tons	3,518	4,051	3,656	4,083	4,490	4,466	4,594	4,848	4,938	5,105
Value	Mil. dol.	483	1,684	1,493	1,472	1,845	1,521	1,606	2,069	2,608	3,037
Plywood	Mil. sq. ft.	4,171	2,477	2,270	3,393	3,056	3,609	3,941	4,094	3,358	(NA)
Value	Mil. dol.	208	409	331	451	438	463	519	638	577	(NA)
EXPORTS											
Lumber, total ²	Mil. bd. ft.	1,243	2,494	2,021	2,270	2,150	1,945	2,427	3,217	4,527	4,236
To: Canada	Percent	21.7	25.3	20.7	29.3	25.8	23.7	22.0	20.9	17.6	15.5
Japan	Percent	30.8	26.0	31.1	27.8	28.0	32.1	36.4	36.8	34.5	38.2
Europe	Percent	24.1	23.8	20.3	20.2	16.0	15.1	16.6	16.9	20.5	16.7
Softwoods	Mil. bd. ft.	1,115	2,007	1,635	1,756	1,624	1,518	1,878	2,424	3,266	3,379
Value	Mil. dol.	163	789	592	609	541	497	644	856	1,143	1,404
Hardwoods	Mil. bd. ft.	128	487	386	514	527	427	548	793	1,261	856
Value	Mil. dol.	31	272	229	305	300	263	350	493	683	653
Logs, total	Mil. bd. ft. ³	2,741	3,261	3,208	3,307	3,495	3,843	3,627	4,110	4,798	4,773
To: Canada	Percent	10.6	9.7	9.4	10.5	12.1	11.6	12.2	10.3	7.9	5.8
Japan	Percent	86.3	78.0	61.7	55.4	50.4	49.4	57.3	58.3	50.3	63.2
China: Mainland	Percent	(NA)	2.7	17.1	21.9	24.8	27.8	17.0	14.1	23.4	10.1
Softwoods	Mil. bd. ft. ³	2,672	3,109	3,115	3,196	3,369	3,732	3,488	3,960	4,594	4,557
Value	Mil. dol.	320	1,452	1,174	1,068	1,079	1,169	1,129	1,526	2,090	2,177
Hardwoods	Mil. bd. ft. ³	69	152	93	112	126	111	139	149	204	216
Value	Mil. dol.	36	129	84	96	101	91	97	118	160	230
Paper and board ⁴	1,000 tons	2,817	5,214	4,246	4,569	4,387	4,071	4,687	5,304	5,691	6,300
Value	Mil. dol.	602	2,773	2,589	2,481	2,552	2,266	2,540	3,104	3,753	4,261
Woodpulp	1,000 tons	3,095	3,806	3,395	3,644	3,594	3,796	4,459	4,869	5,528	6,231
Value	Mil. dol.	464	1,652	1,415	1,362	1,502	1,354	1,663	2,251	2,915	3,513
Plywood	Mil. sq. ft.	183	420	493	615	407	365	656	855	1,108	(NA)
Value	Mil. dol.	16	108	117	143	94	86	145	194	247	(NA)

NA Not available. ¹ Customs value of imports; see text, section 29. ² Includes railroad ties. ³ Log scale. ⁴ Includes paper and board products. Excludes hardboard.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics: 1960-89*.

No. 1149. Fishery Products—Domestic Catch and Imports, Summary: 1970 to 1990

[Live weight, in millions of pounds, except percent. 1979-1989 preliminary. For data on commercial catch for selected countries, see table 147B, section 31. See *Historical Statistics, Colonial Times to 1970*, series L 224-226, for domestic catch]

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	11,474	11,357	11,353	12,011	12,352	12,552	15,150	14,368	15,744	14,628	15,485	16,653
For human food	6,213	8,006	8,267	7,968	8,413	8,498	9,337	9,620	10,561	10,505	12,268	12,967
Finfish	(NA)	6,139	6,316	6,090	6,358	6,303	6,991	7,087	7,919	7,786	9,735	10,426
Shellfish	(NA)	1,867	1,951	1,878	2,055	2,195	2,346	2,533	2,642	2,719	2,533	2,541
For industrial use	5,261	3,351	3,086	4,043	3,939	4,054	5,813	4,748	5,183	4,123	3,217	3,686
Domestic catch	4,917	6,482	5,977	6,367	6,439	6,438	6,258	6,031	6,896	7,192	8,463	9,708
Percent of total	42.8	57.1	52.7	53.0	52.1	51.3	41.3	42.0	43.8	49.2	54.7	58.3
For human food	2,537	3,654	3,547	3,285	3,238	3,320	3,294	3,393	3,946	4,588	6,204	7,346
Finfish	(NA)	2,516	2,414	2,324	2,351	2,348	2,273	2,240	2,769	3,306	4,897	6,053
Shellfish	(NA)	1,138	1,133	961	887	972	1,021	1,153	1,177	1,282	1,307	1,293
For industrial use	2,380	2,828	2,430	3,082	3,201	3,118	2,964	2,638	2,950	2,604	2,259	2,362
Imports ²	6,557	4,875	5,376	5,644	5,913	6,114	8,892	8,337	8,848	7,436	7,022	6,945
Percent of total	57.2	42.9	47.3	47.0	47.9	48.7	58.7	58.0	56.2	50.8	45.3	41.7
For human food	3,676	4,352	4,720	4,683	5,175	5,178	6,043	6,227	6,615	5,917	6,064	5,621
Finfish	(NA)	3,623	3,902	3,766	4,007	3,955	4,718	4,847	5,150	4,480	4,838	4,373
Shellfish	(NA)	729	818	917	1,168	1,223	1,325	1,380	1,465	1,437	1,226	1,248
For industrial use ³	2,881	523	656	961	738	936	2,849	2,110	2,233	1,519	958	1,324

NA Not available. ¹ For univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.), the weight of meats, excluding the shell, is reported. ² Excludes imports of edible fishery products consumed in Puerto Rico; includes landings of tuna caught by foreign vessels in American Samoa. ³ Fish meal and sea herring.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

No. 1150. Fisheries—Employment, Fishing Craft, and Establishments: 1970 to 1989

[In thousands. As of Dec. 31. 1979-89 preliminary. Data for employment and establishments exclude Alaska. See also *Historical Statistics, Colonial Times to 1970*, series L 254-261]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Persons employed in U.S.	227	260	267	296	303	314	333	340	351	347	359	364	(NA)
Fishermen	140	168	184	193	198	216	223	230	239	247	256	274	(NA)
Shore workers ¹	87	92	83	103	105	98	110	110	112	100	103	90	73
Craft used	88	103	103	113	115	123	127	127	130	128	123	110	111
Vessels, 5 net tons and over . . .	14	16	18	19	20	20	21	24	24	38	23	32	36
Motorboats	72	85	84	93	93	102	105	102	104	88	68	78	75
Other boats	2	2	1	1	2	1	1	1	2	2	2	(NA)	(NA)
Fishery shore establishments.	3.7	3.6	3.4	3.6	3.6	3.6	3.9	4.0	4.0	4.0	4.2	4.6	4.5

NA Not available. ¹ Seasonal average for processors and wholesaling plants. ² Excludes Maryland and Virginia.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

No. 1151. Fisheries—Quantity and Value of Domestic Catch: 1960 to 1990

[1979-1990 preliminary. See also *Historical Statistics, Colonial Times to 1970*, series L 224-226, L 229, and L 310]

YEAR	QUANTITY (mil. lb. ¹)			Value (mil. dol.)	Average price per lb. (cents)	YEAR	QUANTITY (mil. lb. ¹)			Value (mil. dol.)	Average price per lb. (cents)
	Total	For human food	For industrial prod- ucts ²				Total	For human food	For industrial prod- ucts ²		
1960.	4,942	2,498	2,444	354	7.2	1980.	6,482	3,654	2,828	2,237	34.5
1965.	4,777	2,587	2,190	446	9.3	1981.	5,977	3,547	2,430	2,388	40.0
1970.	4,917	2,537	2,380	613	12.5	1982.	6,367	3,285	3,082	2,390	37.5
1972.	4,806	2,435	2,371	748	15.6	1983.	6,439	3,238	3,201	2,355	36.6
1973.	4,858	2,398	2,460	937	19.3	1984.	6,438	3,320	3,118	2,350	36.5
1974.	4,967	2,496	2,471	932	18.7	1985.	6,258	3,294	2,964	2,326	37.2
1975.	4,877	2,465	2,412	977	20.0	1986.	6,031	3,393	2,638	2,763	45.8
1976.	5,388	2,775	2,613	1,349	25.0	1987.	6,896	3,946	2,950	3,115	45.2
1977.	5,271	2,952	2,319	1,554	29.5	1988.	7,192	4,588	2,604	3,520	48.9
1978.	6,028	3,177	2,851	1,854	30.7	1989.	8,463	6,204	2,259	3,238	38.3
1979.	6,267	3,318	2,949	2,234	35.6	1990.	9,708	7,346	2,362	3,572	36.8

¹ Live weight. ² Meat, oil, fish solubles, homogenized condensed fish, shell products, bait, and animal food.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

No. 1152. Fisheries—Quantity and Value of Catch, by State, and Catch of Principal Species, by Area: 1980 to 1990

[Catch in millions of pounds, live weight, except as indicated; value in millions of dollars. Preliminary. See also *Historical Statistics, Colonial Times to 1970*, series L 262-293]

AREA, STATE, CATCH, AND VALUE	1980	1985	1989	1990	AREA, STATE, CATCH, AND VALUE	1980	1985	1989	1990
Total:					Value		20	21	20
Catch	6,482	6,258	8,463	9,708	Florida (east coast):		77	66	56
Value	2,237	2,326	3,238	3,572	Catch		39	57	53
New England:					Value				54
Catch	788	590	565	649	Catch for certain species:		218	105	68
Value	327	419	509	543	Menhaden		33	28	34
Maine:					Shrimp		55	48	52
Catch	245	175	151	169	Crabs				54
Value	93	101	133	130	Scallops		1	13	5
New Hampshire:					Gulf States:				2
Catch	19	8	11	11	Catch		1,979	2,412	1,790
Value	5	5	10	10	Value		463	597	649
Massachusetts:					Florida (west coast):				
Catch	438	296	269	328	Catch		115	117	141
Value	178	232	273	303	Value		86	114	132
Rhode Island:					Alabama:				
Catch	81	104	125	132	Catch		25	30	25
Value	46	70	75	73	Value		25	41	38
Connecticut:					Mississippi:				
Catch	5	7	9	9	Catch		334	471	298
Value	5	12	18	27	Value		25	40	44
Catch for certain species:					Louisiana:				
Clams	15	22	16	15	Catch		1,412	1,693	1,228
Cod	118	83	78	95	Value		174	225	265
Crabs	7	8	11	9	Texas:				
Flounder	118	98	50	60	Catch		94	103	96
Haddock	55	14	4	5	Value		153	177	170
Herring, sea	184	52	90	113	Catch for certain species:				
Lobster, American	36	44	49	55	Crabs		45	53	61
Ocean perch, Atlantic	24	10	1	1	Mullet		31	17	27
Pollack	40	43	23	21	Oysters (meats)		17	25	15
Scallops, sea	17	10	21	25	Shrimp		208	263	228
Squid	6	15	47	36	Great Lakes: ¹				
Whiting	18	31	23	28	Catch		44	54	38
Middle Atlantic:					Value		14	15	20
Catch	244	151	172	207	Mississippi River and tributaries:				
Value	97	101	133	150	Catch		85	92	(NA)
New York:					Value		21	29	(NA)
Catch	39	39	37	49	Pacific Coast:				
Value	45	38	51	56	Catch		2,140	1,816	4,840
New Jersey:					Value		1,025	863	1,560
Catch	201	108	128	149	Washington:				
Value	50	61	79	88	Catch		156	167	163
Delaware:					Value		86	93	135
Catch	4	5	7	9	Oregon:				
Value	2	2	3	4	Catch		126	101	170
Catch for certain species:					Value		56	46	79
Clams (meats)	40	73	80	93	California:				
Scup or porgy	8	2	4	4	Catch		804	363	418
Squid	3	8	17	6	Value		323	133	123
Chesapeake Bay:					Alaska:				
Catch	717	815	778	867	Catch		1,054	1,185	4,089
Value	130	124	152	160	Value		560	591	1,223
Maryland:					Catch for certain species:				
Catch	80	92	85	81	Anchovies		107	15	13
Value	45	47	52	54	Bonito		14	5	8
Virginia:					Cod		20	120	372
Catch	637	723	693	787	Crabs		347	129	199
Value	85	76	100	107	Flounder		60	68	133
Catch for certain species:					Hake		12	16	17
Crabs	65	91	89	91	Halibut		19	61	75
Clams	36	47	38	27	Herring, sea		107	142	119
Scallops, sea	6	3	8	9	Jack mackerel		44	21	28
Flounder	10	6	4	2	Mackerel		65	75	89
Oysters	21	8	4	4	Oysters		7	8	11
South Atlantic:					Pollock		3	93	2,362
Catch	473	311	256	262	Rockfish		106	82	134
Value	148	156	169	170	Sablefish		22	63	98
North Carolina:					Salmon		614	727	785
Catch	356	215	164	176	Shrimp		98	35	81
Value	69	65	71	72	Tuna		387	64	56
South Carolina:					Hawaii:				
Catch	21	13	20	14	Catch		11	17	24
Value	20	14	25	24	Tuna catch		7	11	14
Georgia:					Value		12	22	47
Catch	19	17	16	13					65

NA Not available. ¹ Collected largely by State fishery agencies and compiled by State fishery agencies and National Marine Fisheries Service. Includes, in addition to the Great Lakes, small amounts for Lake St. Clair, Lake of the Woods, Namakan Lake, and Rainy Lake.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

No. 1153. Domestic Fisheries—Catch by Selected Ports: 1985 to 1990[See *Historical Statistics, Colonial Times to 1970*, series I. 236-253, for data on quantity and value of catch]

PORT	CATCH (mil. lb.)					VALUE (mil. dol.)				
	1985	1987	1988	1989	1990	1985	1987	1988	1989	1990
New Bedford, MA.....	90.6	78.7	90.3	90.4	114.8	103.2	143.7	140.9	141.0	160.4
Dutch Harbor-Unalaska, AK.....	106.3	128.2	377.3	504.3	509.9	21.3	62.7	100.9	107.0	126.2
Kodiak, AK.....	96.1	204.1	304.6	213.2	272.5	65.8	132.1	166.3	100.2	101.7
Dulac-Chauvin, LA.....	398.6	331.7	244.1	210.9	164.4	59.9	65.6	56.5	50.0	52.7
Empire-Venice, LA.....	224.5	357.4	297.2	272.7	244.2	34.3	60.1	67.7	49.2	46.3
Gloucester, MA.....	116.5	93.0	107.4	98.5	126.2	37.1	34.0	30.8	30.0	40.5
Petersburg, AK.....	(NA)	42.4	50.4	113.5	67.5	(NA)	36.9	58.5	61.4	39.4
Cordova, AK.....	(NA)	69.6	42.5	55.3	70.8	(NA)	41.9	46.4	35.3	36.8
Cape May-Wildwood, NJ.....	30.3	56.8	47.9	54.0	69.2	18.1	30.5	28.4	30.8	34.4
Point Judith, RI.....	56.8	46.6	49.6	48.3	58.7	28.0	27.4	25.4	23.6	32.2
Portland, ME.....	36.1	43.8	43.9	49.0	48.9	17.2	35.8	30.4	34.4	31.7
Ketchikan, AK.....	(NA)	27.6	28.3	91.6	52.6	(NA)	22.8	43.5	45.6	28.3
Beaufort-Morehead City, NC.....	133.2	85.7	110.0	95.0	102.0	22.7	22.7	27.0	25.0	23.0
Cameron, LA.....	673.6	672.4	438.9	352.7	232.6	29.9	31.9	33.2	20.5	20.6
Morgan City-Berwick, LA.....	7.7	27.0	43.3	68.1	146.5	(NA)	11.0	16.7	17.8	19.7
Pascagoula-Moss Point, MS.....	423.2	391.6	292.0	282.1	303.9	18.4	20.3	28.2	16.9	18.8
Los Angeles, CA.....	150.3	203.1	232.0	177.6	133.8	32.5	55.6	34.0	20.3	17.6
Astoria, OR.....	25.5	46.6	44.2	51.0	41.2	9.5	24.6	24.3	20.0	16.2
Port Hueneme-Oxnard-Ventura, CA.....	19.9	42.3	55.0	50.9	24.2	5.4	8.1	10.0	7.9	9.2
Intercoastal City, LA.....	(NA)	314.3	209.7	207.2	173.0	(NA)	13.4	14.7	9.5	(NA)

NA Not available. ¹ Record.Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.**No. 1154. Domestic Fish and Shellfish Catch and Value, by Species: 1985 to 1990**

SPECIES	QUANTITY (1,000 lb.)				VALUE (\$1,000)		
	1985-89 5 year average	1985	1989	1990	1985	1989	1990
Total	(X)	6,257,642	8,463,080	9,708,421	2,326,237	3,238,440	3,572,437
Fish, total	(X)	5,214,363	7,145,154	8,395,918	1,183,427	1,726,247	1,950,539
Anchovies.....	13,335	14,566	13,389	13,189	2,704	2,696	2,723
Bluefish.....	14,044	13,743	10,429	13,802	2,363	2,245	3,239
Butterfish.....	8,605	10,338	7,051	6,532	3,537	4,108	3,334
Cod: Atlantic.....	71,511	82,823	78,423	95,881	35,140	47,772	61,329
Pacific.....	206,934	120,275	372,137	544,203	18,556	55,375	94,590
Croaker.....	10,681	11,088	8,287	6,786	3,658	4,114	3,437
Flounder.....	189,118	195,718	202,489	502,218	129,121	119,831	159,315
Haddock.....	8,459	14,416	3,808	5,440	13,545	4,538	5,967
Halibut.....	74,321	61,032	75,168	70,454	38,376	85,145	96,700
Herring, sea: Atlantic.....	80,221	57,133	89,657	113,095	2,968	5,041	5,746
Herring, sea: Pacific.....	129,243	142,074	119,346	108,120	47,025	24,391	32,178
Jack mackerel.....	24,433	20,852	28,422	8,859	1,770	1,927	535
Mackerel, Pacific.....	88,732	75,459	88,667	83,721	6,324	6,023	5,081
Menahden.....	2,383,569	2,739,401	1,988,726	1,962,160	100,680	84,462	93,896
Mullet.....	27,442	21,205	31,594	28,554	5,720	15,023	12,738
Ocean perch, Atlantic.....	4,837	9,666	1,392	1,322	3,179	919	703
Ocean perch, Pacific.....	15,770	9,034	22,332	60,972	1,757	4,646	8,494
Pollock, Atlantic.....	39,978	43,477	23,249	21,042	6,978	9,922	10,516
Pollock, Alaska.....	878,909	92,833	2,361,988	3,157,406	5,409	186,921	272,640
Rockfish.....	109,934	82,109	133,623	170,647	23,107	42,338	40,532
Sablefish.....	91,209	63,380	97,590	89,802	28,692	73,272	58,864
Salmon.....	667,900	726,946	785,868	733,146	439,795	591,234	612,367
Scup or porgy.....	14,082	15,996	9,582	11,452	9,338	7,720	8,677
Sea trout, gray.....	17,930	16,400	14,187	9,880	7,330	7,160	5,777
Shark, Dogfish.....	11,944	11,563	12,804	35,793	842	1,602	3,801
Snapper, red.....	4,303	5,181	3,959	3,101	10,661	10,329	8,411
Swordfish.....	11,255	12,258	11,768	13,797	33,191	38,321	40,851
Tuna.....	94,337	83,054	89,413	62,393	52,515	103,543	105,040
Whiting.....	38,813	44,545	39,353	44,500	8,274	9,403	11,281
Shellfish, total	(X)	1,043,279	1,317,926	1,312,503	1,132,810	1,512,193	1,621,898
Clams.....	140,041	150,551	138,166	139,198	128,349	134,943	130,194
Crabs.....	398,733	337,632	450,378	499,416	203,044	414,401	483,837
Lobsters: American.....	47,866	46,152	52,926	61,017	114,895	149,115	154,677
Oysters.....	37,268	44,173	29,926	29,193	70,053	83,585	93,718
Scallops: Calico Sea.....	8,146	12,513	6,580	1,135	12,524	5,928	1,281
Sea.....	26,435	15,829	33,757	39,917	74,562	132,594	153,696
Shrimp.....	355,881	333,691	351,514	346,494	472,850	467,571	491,433
Squid: Atlantic.....	38,551	7,157	66,829	58,809	7,256	25,592	21,178
Pacific.....	49,728	22,276	60,509	36,082	4,047	5,509	2,636

X Not applicable. ¹ Includes other types of fish and shellfish, not shown separately.Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

No. 1155. Disposition of U.S. Domestic Catch: 1970 to 1990

[Live weight catch in millions of pounds. 1980-90 preliminary. In addition to whole fish, a large portion of waste (400-500 million lb.) derived from canning, filleting, and dressing fish and shellfish is utilized in production of fish meal and oil in each year shown. See *Historical Statistics, Colonial Times to 1970*, series L 305-310, for similar but not entirely comparable data.]

DISPOSITION	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	4,917	4,877	6,482	6,367	6,439	6,438	6,258	6,031	6,896	7,192	8,463	9,708
Fresh and frozen	1,595	1,744	2,621	2,550	2,304	2,336	2,242	2,487	3,157	3,813	5,585	6,805
Canned	1,150	907	1,161	891	1,087	1,128	1,232	1,134	1,009	1,017	798	751
Cured	71	55	96	85	80	82	70	60	89	86	128	126
Reduced to meal, oil, etc.	2,101	2,171	2,604	2,841	2,968	2,892	2,714	2,350	2,641	2,276	1,952	2,026

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

No. 1156. Joint Venture Catches in the U.S. Exclusive Economic Zone (EEZ), by Species: 1985 to 1990

[Joint venture—An operation authorized under the Magnuson Fishery Conservation and Management Act (MFCMA) in which a permitted foreign vessel receives fish in the U.S. Exclusive Economic Zone (EEZ) from a U.S. vessel. The fish received from the U.S. vessel are part of the U.S. harvest]

SPECIES	QUANTITY (1,000 lb.)				VALUE (\$1,000)			
	1985	1986	1989	1990	1985	1986	1989	1990
Total	2,008,889	3,201,487	1,700,293	800,565	104,320	221,090	112,165	51,341
Atka mackerel	88,047	43,253	-	-	6,109	3,571	-	-
Cod	80,189	245,871	97,937	17,809	7,799	30,429	12,495	1,763
Flounder	396,084	727,778	426,436	219,547	24,833	53,763	34,179	23,527
Hake, Pacific	(D)	299,343	448,808	376,927	(D)	14,660	21,628	18,429
Ocean perch	619	-	-	-	56	-	-	-
Mackerel, Atlantic	8,350	12,533	(Z)	(D)	584	760	(Z)	(D)
Pollock, Alaska	1,354,368	1,822,242	634,385	49,376	59,730	116,102	40,378	2,139
Rockfish	154	4,636	-	-	14	705	-	-
Sablefish	207	112	-	-	30	14	-	-
Squid	7,987	(D)	-	-	1,194	(D)	-	-
Other	72,884	45,719	92,727	136,806	3,971	1,086	3,485	5,483

- Represents zero. D Figure withheld to avoid disclosure. Z Less than \$500.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

No. 1157. U.S. Catch and Value of Fish and Shellfish, by Distance Caught Off U.S. Shores—Selected Species: 1990

[Preliminary. Catch is shown in live weight, except as indicated. Includes landings by U.S. flag vessels at Puerto Rico and other ports outside the 50 States and joint venture catches, therefore will not agree with other tables; see table 1156]

SPECIES	Total U.S. catch (mil. lb.)	BY DISTANCE FROM U.S. SHORES						Value of U.S. catch ¹ (mil. dol.)	
		Catch (mil. lb.)		Percent of U.S. catch					
		3 miles or less ¹	3 to 200 miles	International waters ²	3 miles or less ¹	3 to 200 miles	International waters ²		
Total	11,021	4,570	5,964	487	41	54	5	3,860	
Fish ³	9,703	3,888	5,328	487	40	55	5	2,227	
Cod	658	63	575	-	13	87	-	158	
Flounder	722	361	361	-	50	50	-	183	
Halibut	70	47	23	-	67	33	-	97	
Herring, sea	221	140	81	-	63	37	-	38	
Mackerel	117	4	113	-	3	97	-	16	
Menahaden	1,962	1,658	304	-	85	15	-	94	
Pollock	3,228	473	2,754	-	15	85	-	285	
Salmon, Pacific	733	726	7	-	99	1	-	612	
Tuna	514	4	26	484	1	5	94	310	
Shellfish ⁴	1,318	682	636	-	52	48	-	1,633	
Clams (meats)	139	38	101	-	27	73	-	130	
Crabs	499	264	235	-	53	47	-	484	
Lobsters	68	53	15	-	78	22	-	178	
Scallops (meats)	42	3	39	-	7	93	-	158	
Shrimp	346	180	166	-	52	48	-	491	
Squid	96	28	68	-	29	71	-	24	

¹ Represents or rounds to zero. ² Includes all landings in Great Lakes and other inland waters. ³ Greater than 200 nautical miles seaward from the U.S. shores except for two States. The boundaries for the Gulf Coast of Florida and Texas are 9 nautical miles seaward. ⁴ Includes other species, not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

No. 1158. U.S. Private Aquaculture—Production and Value: 1980 to 1987

[Production is shown in live weight, except as indicated. Aquaculture is the commercial growing of fish or other aquatic life in a controlled environment]

SPECIES	PRODUCTION (1,000 lbs.)					VALUE (\$1,000)				
	1980	1984	1985	1986	1987	1980	1984	1985	1986	1987
Total	203,178	455,733	535,764	619,959	721,089	191,977	398,168	422,736	496,329	613,653
Baitfish ¹	22,046	23,598	24,807	25,247	26,000	44,000	47,045	51,280	51,522	71,500
Catfish	76,842	239,800	271,357	326,979	372,000	53,572	191,840	189,194	228,886	277,000
Clams	561	1,698	1,588	2,506	2,215	2,295	4,178	4,717	8,307	9,243
Crawfish	23,917	59,400	64,999	97,500	95,000	12,951	29,700	32,500	48,750	35,525
Freshwater prawns	300	317	267	178	200	1,200	1,698	1,540	893	1,250
Mussels ²	(NA)	917	928	1,206	1,077	(NA)	1,584	1,248	1,725	1,746
Oysters ²	23,755	24,549	22,473	24,090	24,315	37,085	38,970	39,977	42,797	43,756
Pacific salmon	7,616	45,086	84,305	74,398	124,308	3,400	17,252	25,439	32,751	55,906
Shrimp	528	440	1,354	2,655	2,655	1,566	1,687	3,408	7,206	7,206
Trout	48,141	49,940	50,600	51,000	56,247	37,474	54,435	55,154	55,590	57,336
Other species	(NA)	9,900	14,000	15,500	31,17,072	(NA)	9,900	20,000	21,700	35,285

- Represents or rounds to zero. NA Not available. ¹ Not used for food consumption. ² Production is shown in meat weight. ³ Includes tropical fish or ornamentals; production of 22,000 pounds and value of \$21 million.

Source: U.S. Dept. of Agriculture, Office of Aquaculture, *Agricultural Outlook*, June 1989.

No. 1159. Supply of Selected Fishery Items: 1980 to 1990

[In millions of pounds. Totals available for U.S. consumption are supply minus exports plus imports. Round weight is the complete or full weight as caught. Data are preliminary]

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
		1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
Tuna, canned	Canned weight	666	626	713	777	759	873	866	843	1,034	865
Shrimp	Heads-off weight	425	458	541	584	633	706	773	767	743	734
Clams	Meat weight	102	119	126	144	164	162	151	145	150	152
Salmon, canned	Canned weight	126	71	127	150	113	87	76	59	159	148
American lobster	Round weight	69	81	93	100	108	113	115	121	94	111
Spiny lobster	Round weight	127	127	137	153	154	152	151	139	106	95
Scallops	Meat weight	51	55	67	87	72	70	81	75	81	81
Sardines, canned	Canned weight	69	67	46	58	76	68	77	63	61	61
Oysters	Meat weight	71	82	81	84	90	91	92	78	67	57
Crab meat, canned	Canned weight	9	7	8	7	8	9	8	8	8	9
Snow crab	Round weight	54	25	30	23	45	49	29	31	(NA)	(NA)
King crab	Round weight	133	28	23	13	11	19	14	10	(NA)	(NA)

NA Not available.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

No. 1160. Canned, Fresh, and Frozen Fishery Products: 1980 to 1990

[Fresh fishery products exclude Alaska and Hawaii. Canned fishery products data are for natural pack only. See also *Historical Statistics, Colonial Times to 1970*, series L 338-357 (production data in cases) and L 358]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)					
	1980	1985	1987	1988	1989	1990 ¹	1980	1985	1987	1988	1989	1990 ¹
Canned, ²	1,516	1,161	1,186	1,131	1,455	1,178	1,928	1,360	1,562	1,481	1,992	1,562
Tuna	602	545	654	598	686	581	1,144	821	1,016	960	1,058	902
Salmon	200	159	105	88	197	196	376	228	262	219	514	366
Clam products	77	117	117	127	135	110	66	109	88	98	91	76
Mackerel ³	38	15	15	18	18	23	12	7	6	9	7	11
Sardines, Maine	20	20	13	19	13	13	32	38	22	24	17	17
Shrimp	16	4	4	4	3	1	80	19	22	25	9	3
Crabs	5	1	(Z)	(Z)	1	1	19	2	1	2	3	4
Oysters ⁴	(Z)	2	4	3	4	1	(Z)	2	2	2	1	1
Fish fillets and steaks ⁵	202	246	356	378	371	434	261	440	753	767	724	820
Cod	31	57	78	62	73	66	43	89	165	137	136	134
Flounder	49	69	58	53	44	53	87	157	168	163	142	149
Haddock	17	8	9	8	7	7	29	19	32	30	26	24
Ocean perch, Atlantic	7	2	3	2	2	1	9	3	6	5	3	1
Rockfish	14	18	18	36	25	36	13	25	27	57	40	58
Pollock, Atlantic	9	15	18	14	11	12	9	17	30	21	18	21
Pollock, Alaska	(NA)	11	75	110	106	164	(NA)	24	82	110	98	174
Other	74	66	97	93	103	95	71	106	243	244	279	259

NA Not available. Z Less than 500,000 pounds or \$500,000. ¹ Preliminary. ² Includes other products, not shown separately. ³ Includes Jack and a small amount of Pacific mackerel. ⁴ Includes oyster specialties. ⁵ Fresh and frozen.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

No. 1161. Processed Fishery Products—Production and Value: 1980 to 1990

[Includes Puerto Rico and American Samoa. See *Historical Statistics, Colonial Times to 1970*, series L 362-365, for meal, scrap, and oil]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)					
	1980	1985	1987	1988	1989	1990 ¹	1980	1985	1987	1988	1989	1990 ¹
Total ²	(X)	(X)	(X)	(X)	(X)	(X)	4,456	4,936	5,951	5,369	6,889	7,401
Fresh and frozen ³	(X)	(X)	(X)	(X)	(X)	(X)	2,110	3,242	4,041	3,562	4,517	5,430
Fillets	197	232	338	362	345	410	247	408	696	707	656	747
Steaks	5	13	18	22	26	24	14	32	58	70	86	73
Fish sticks	88	96	99	80	89	65	89	111	143	114	116	75
Fish portions	344	330	324	301	280	294	388	368	446	439	400	414
Breaded shrimp	83	95	109	99	121	114	254	355	372	293	404	371
Canned products ⁴	1,516	1,161	1,186	1,130	1,455	1,178	1,928	1,360	1,562	1,481	1,992	1,562
Fish and shellfish	1,009	913	965	907	1,110	957	1,782	1,269	1,476	1,388	1,754	1,415
Animal food	507	248	221	223	345	221	146	91	85	93	238	147
Industrial products	(X)	(X)	(X)	(X)	(X)	(X)	270	182	212	236	206	207
Meal and scrap	724	722	787	644	618	577	134	84	121	131	115	121
Oil (body and liver)	312	285	298	225	225	282	58	42	36	44	24	29
Solubles	267	323	249	223	233	186	14	19	17	15	18	14
Other	(X)	(X)	(X)	(X)	(X)	(X)	64	37	38	47	50	43

X Not applicable. ¹ Preliminary. ² Includes cured fish. ³ Includes items not shown (dressed fish, shellfish not breaded, specialties). ⁴ Includes salmon eggs for bait.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

No. 1162. Imports and Exports: 1970 to 1990

[Imports include landings of tuna by foreign vessels at American Samoa. See also *Historical Statistics, Colonial Times to 1970*, series L 227-235]

YEAR	IMPORTS				EXPORTS					
	Total U.S. value (mil. dol.)	Fishery products			Total U.S. value (mil. dol.)	Fishery products				
		Total value (mil. dol.)	Edible products	Nonedible, value (mil. dol.)		Total value (mil. dol.)	Edible products	Nonedible, value (mil. dol.)		
1970.	39,756	1,037	1,873	813	225	43,224	118	140	94	24
1980.	244,007	3,648	2,145	2,587	962	220,783	1,006	574	904	102
1985.	343,553	6,679	2,754	4,064	2,614	213,146	1,084	648	1,010	73
1986.	368,657	7,626	2,970	4,813	2,813	217,304	1,356	735	1,290	66
1987.	402,066	8,818	3,201	5,711	3,106	252,866	1,660	783	1,577	83
1988.	437,140	8,872	2,968	5,442	3,430	320,385	2,275	1,060	2,156	119
1989.	472,977	9,604	3,243	5,498	4,107	(NA)	4,707	1,374	2,283	2,424
1990, prel.	490,554	9,048	2,885	5,233	3,815	(NA)	5,639	1,920	2,779	2,860

NA Not available. ¹ Record. ² Increase from 1986 due to change in classification of products in new harmonized system; see text, section 29.

No. 1163. Selected Fishery Products—Imports and Exports: 1985 to 1990

[See *Historical Statistics, Colonial Times to 1970*, series L 312-318, for selected imports]

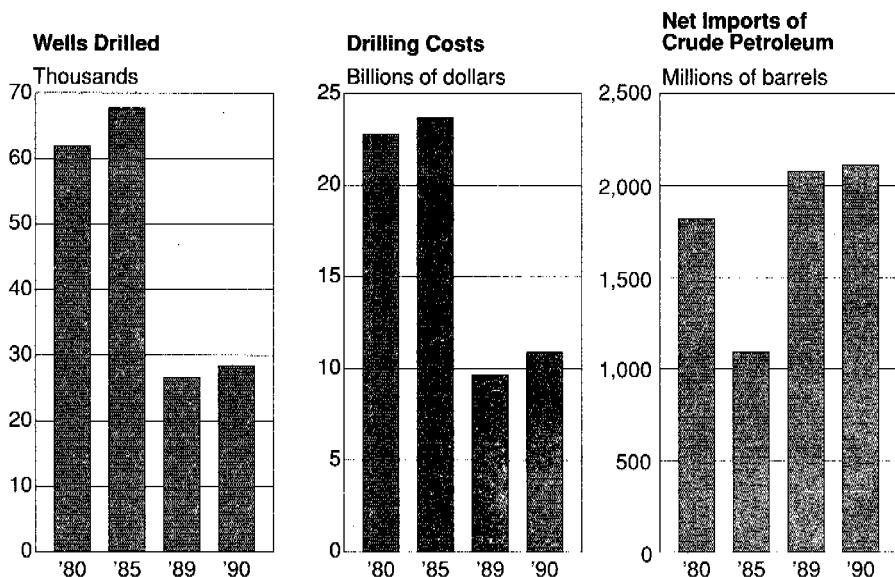
PRODUCT	QUANTITY (mil. lb.)					VALUE (mil. dol.)				
	1985	1987	1988	1989	1990, prel.	1985	1987	1988	1989	1990, prel.
Imports, edible ¹	2,754	3,201	2,968	3,243	2,885	4,064	5,711	5,442	5,498	5,233
Fresh or frozen ¹	2,229	2,662	2,473	2,612	2,336	3,462	5,022	4,780	4,695	4,521
Salmon ²	27	42	50	99	104	78	113	155	228	253
Tuna ³	479	573	550	650	454	266	331	372	402	339
Groundfish fillets, blocks ⁴	640	630	501	484	418	655	1,004	759	702	677
Other fillets and steaks	231	394	320	253	257	334	651	533	490	458
Scallops (meats)	42	40	32	41	40	147	162	116	139	131
Lobster, American, spiny	77	81	78	72	74	465	576	547	453	440
Shrimp and prawn	343	461	490	492	492	1,121	1,677	1,726	1,685	1,639
Canned ¹	414	429	424	533	458	466	516	551	642	543
Sardines and herring ⁵	40	43	37	41	42	30	34	33	34	31
Tuna	214	212	245	348	285	209	207	299	376	294
Oysters	29	33	27	20	14	30	36	40	37	27
Pickled or salted	57	57	56	51	45	53	75	67	55	49
Cod, haddock, hake, pollock, cusk	35	32	31	17	4	41	61	53	25	5
Nonedible scrap and meal	511	394	265	171	239	62	53	49	32	39
Exports: Canned salmon	48	36	33	40	49	83	86	92	90	104
Fish oil, nonedible	279	249	149	195	222	37	23	22	20	24

¹ Includes products not shown separately. ² Excludes fillets. ³ Includes landings of tuna by foreign vessels at American Samoa. ⁴ Includes cod, cusk, haddock, hake, pollock, Atlantic ocean perch, and whiting. ⁵ Not in oil.

Source of tables 1162 and 1163: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual. Compiled from U.S. Bureau of the Census data.

Figure 25.1

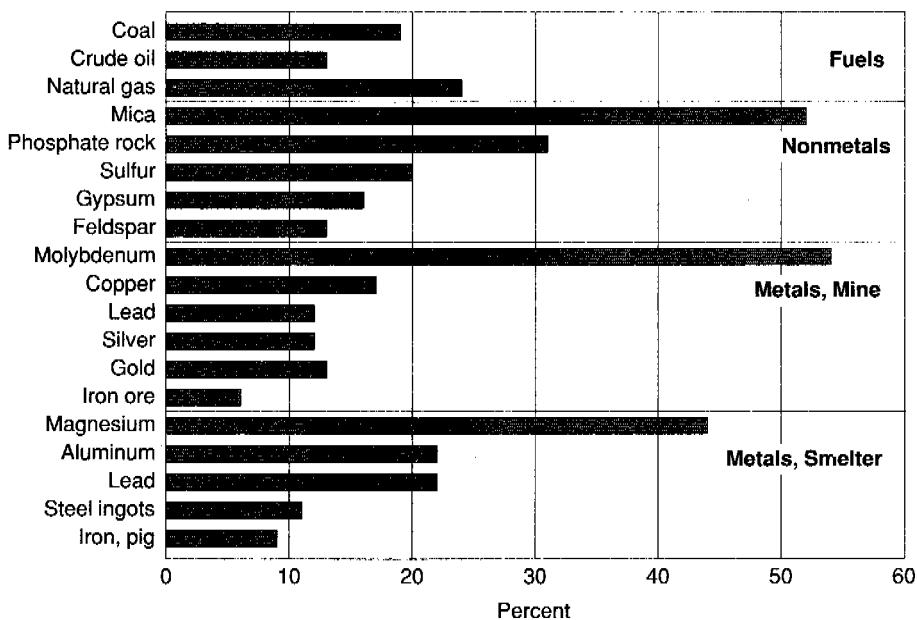
**Wells Drilled and Drilling Costs for Crude Petroleum
and Natural Gas: 1980 to 1990**



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1181 and 1184.

Figure 25.2

U.S. Mineral Production as a Percentage of World: 1989



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1174.

Mining and Mineral Products

This section presents data relating to mineral industries and their products, general summary measures of production and employment, and more detailed data on production, prices, imports and exports, consumption, and distribution for specific industries and products. Data on mining and mineral products may also be found in sections 27 and 31 of this *Abstract*; data on mining employment may be found in section 13.

Mining comprises the extraction of minerals occurring naturally (coal, ores, crude petroleum, natural gas) and quarrying, well operation, milling, refining and processing, and other preparation customarily done at the mine or well site or as a part of extraction activity. (Mineral preparation plants are usually operated together with mines or quarries.) Exploration for minerals is included as is the development of mineral properties.

The principal governmental sources of these data are the *Minerals Yearbook*, published by the Bureau of Mines, Department of the Interior, and various monthly and annual publications of the Energy Information Administration, Department of Energy. See text, section 19 for list of Department of Energy publications. In addition, the Bureau of the Census conducts a census of mineral industries every 5 years. Nongovernment sources include the *Annual Statistical Report* of the American Iron and Steel Institute, Washington, DC; *Metals Week* and the monthly *Engineering and Mining Journal*, issued by the McGraw-Hill Publishing Co., New York, NY; *The Iron Age*, issued weekly by the Chilton Co., Philadelphia, PA; and the *Joint Association Survey of the U.S. Oil and Gas Industry*, conducted jointly by the American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association.

Mineral statistics, with principal emphasis on commodity detail, have been collected by the Geological Survey or by the Bureau of Mines since 1880. Current data in Bureau of Mines publications include quantity and value of nonfuel minerals produced, sold or used by producers, or shipped; quantity of minerals stocked; crude

In Brief

Petroleum balance, 1990:

Production	6.2 billion barrels
Net imports	2.1 billion barrels
Stocks	1.6 billion barrels

materials treated and prepared minerals recovered; and consumption of mineral raw materials. The U.S. Mine Safety and Health Administration also collects and publishes data on workhours, employment, accidents, and injuries in the mineral industries, except petroleum and natural gas. In October 1977, mineral fuel data collection activities of the Bureau of Mines were transferred to the Energy Information Administration.

Censuses of mineral industries have been conducted by the Bureau of the Census at various intervals since 1840. Beginning with the 1967 census, legislation provides for a census to be conducted every 5th year for years ending in "2" and "7." The censuses provide, for the various types of mineral establishments, information on operating costs, capital expenditures, labor, equipment, and energy requirements in relation to their value of shipments and other receipts. Commodity statistics on many manufactured mineral products are also collected by the Bureau at monthly, quarterly, or annual intervals and issued in its *Current Industrial Reports* series.

In general, figures shown in the individual commodity tables include data for outlying areas and may therefore not agree with detailed table 1168. Except for crude petroleum and refined products, the export and import figures include foreign trade passing through the customs districts of United States and Puerto Rico, but exclude shipments between U.S. territories and the customs districts.

Historical statistics. Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

No. 1164. Summary of Mineral Operations: 1958 to 1987

[Represents mineral operations only. Beginning 1967, excludes single unit establishments without paid employees. See also *Historical Statistics, Colonial Times to 1970*, series M 1-11]

ITEM	Unit	1958	1963	1967	1972	1977	1982	1987
Establishments	Number	36,392	38,651	28,579	25,269	31,359	42,241	33,617
With 20 or more employees	Number	6,045	5,499	5,682	5,312	6,632 (NA)	6,299	
Including all operations in manufactures	Number	37,966	40,532	29,688	26,178	31,967	42,585	34,041
Excluding oil and gas extraction	Number	19,444	19,290	13,330	11,680	13,520	12,267	10,707
Employees, total	1,000	734	616	567	595	799	1,114	698
Production workers	1,000	565	482	433	443	593	762	451
All other	1,000	169	134	134	152	206	352	247
Worker-hours, production workers	Million	1,081	973	892	909	1,183	1,578	942
Worker-hours per production workers	1,000	1.9	2.0	2.1	2.1	2.0	2.1	2.1
Payroll, total	Mil. dol.	3,749	3,743	4,187	6,226	13,167	28,637	21,739
Wages, production workers	Mil. dol.	2,623	2,880	2,888	4,250	9,082	18,030	12,443
Salaries, all other employees	Mil. dol.	1,126	1,063	1,299	1,976	4,085	10,807	9,296
Cost of supplies, etc.	Mil. dol.	7,521	8,974	10,576	14,884	46,079	109,697	62,423
Value added in mining	Mil. dol.	13,985	15,910	19,330	26,471	68,013	188,056	110,959
Metal mining	Mil. dol.	1,180	1,418	1,557	2,382	3,504	3,215	4,610
Coal mining	Mil. dol.	1,780	1,727	2,091	3,754	11,266	18,631	17,068
Oil and gas extraction	Mil. dol.	9,033	11,020	13,394	17,612	48,587	159,937	80,049
Nonmetallic minerals mining	Mil. dol.	1,392	1,745	2,288	2,723	4,656	6,273	9,233
Value of shipments and receipts	Mil. dol.	16,373	18,804	22,784	36,319	95,375	250,000	157,964
Capital expenditures	Mil. dol.	2,804	3,264	4,058	5,036	17,718	47,753	15,418

NA Not available. ¹ See footnote 4, table 1167. ² Includes purchased machinery installed. ³ See footnote 6, table 1167.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1972, 1977, 1982, and 1987*.

No. 1165. Gross National Product (GNP) in Mining: 1980 to 1989

[In millions of dollars, except percent. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

MINING INDUSTRY	1980	1982	1983	1984	1985	1986	1987	1988	1989
Current dollars, total	107,257	132,122	118,351	119,362	114,174	74,289	76,836	80,017	80,254
Percent of total GNP	3.9	4.2	3.5	3.2	2.8	1.8	1.7	1.6	1.5
Metal mining	3,836	2,321	2,527	2,216	1,750	1,768	2,449	2,928	3,570
Coal mining	12,909	15,108	14,301	14,597	13,881	13,168	13,189	13,171	13,647
Oil and gas extraction	84,947	110,228	96,412	96,385	92,444	52,449	54,010	55,799	55,660
Nonmetallic minerals, exc. fuels	5,565	4,465	5,111	6,164	6,099	6,904	7,188	8,119	7,377
Constant (1982) dollars, total	143,544	132,122	129,926	137,874	138,950	128,250	127,514	129,536	127,187
Percent of total GNP	4.5	4.2	4.0	3.9	3.8	3.4	3.3	3.2	3.1
Metal mining	2,054	2,321	2,246	2,463	2,423	2,597	2,687	2,625	3,294
Coal mining	13,944	15,108	15,484	16,514	16,391	16,972	18,050	19,567	21,599
Oil and gas extraction	121,505	110,228	107,048	112,647	114,053	102,075	100,172	99,919	95,662
Nonmetallic minerals, exc. fuels	6,041	4,465	5,148	6,250	6,083	6,606	6,605	7,425	6,632

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

No. 1166. Mining and Primary Metal Production Indexes: 1970 to 1991

[1987 = 100. See also *Historical Statistics, Colonial Times to 1970*, series M 68-71]

INDUSTRY GROUP	1970	1975	1980	1983	1984	1985	1986	1988	1989	1990	1991
Mining	100.4	98.0	110.0	104.8	111.9	109.0	101.0	101.8	100.5	102.6	101.1
Coal	67.2	71.5	90.2	85.4	97.5	96.3	97.1	105.0	105.7	113.2	109.2
Anthracite	274.1	175.0	169.6	115.1	116.9	132.8	120.8	115.6	96.3	103.2	72.7
Bituminous	66.0	71.0	89.7	85.2	97.4	96.1	96.9	105.0	105.8	113.3	109.4
Oil and gas extraction	104.8	101.8	112.1	109.3	115.5	111.9	102.0	99.4	99.5	95.5	95.8
Crude oil and natural gas	122.3	107.5	108.4	102.1	106.4	105.0	101.7	99.2	95.6	93.7	95.5
Oil and gas drilling	65.2	109.7	181.2	197.1	226.6	198.9	109.8	100.0	93.7	109.0	93.3
Metal mining	129.5	106.4	108.8	83.5	91.7	91.3	95.2	122.7	141.4	153.1	150.2
Iron ore	194.4	172.1	149.4	82.0	111.0	104.9	84.4	119.8	128.3	118.1	118.2
Nonferrous ores	111.5	88.7	95.0	84.0	84.8	86.4	89.1	123.3	145.1	160.5	156.9
Copper ore	123.2	101.5	93.1	83.0	85.9	86.9	91.2	113.8	118.4	125.3	129.1
Lead and zinc ores	192.2	189.9	166.7	138.1	109.7	120.1	103.3	119.8	130.4	174.3	185.1
Primary metals, manufacturing	115.2	107.2	110.8	91.0	102.4	101.8	93.8	110.3	109.2	108.4	99.5
Nonferrous metals	77.1	75.3	92.5	84.9	98.2	98.5	87.3	105.4	109.0	106.2	101.5
Copper	135.2	103.0	94.7	85.6	97.0	99.8	99.1	113.5	115.5	120.2	116.7
Aluminum	107.6	105.2	138.7	100.1	122.2	104.7	90.9	117.8	120.8	121.1	123.2
Iron and steel	148.2	133.5	126.0	96.1	105.9	104.5	90.8	119.8	109.3	109.9	98.0

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

No. 1167. Mineral Industries—Summary: 1977 to 1987

[N.e.c. means not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series M1-12.]

MINERAL INDUSTRY	1977		1982		1987		Establishments	All employees in mining, pay-roll (mil. doll.)	Value added in min- ing (mil. doll.)	All employees	Value added in min- ing (mil. doll.)	Establishments	All employees	Value added in min- ing (mil. doll.)	Production workers ⁴	Value added in min- ing (mil. doll.)	Wages (mil. doll.)	Value of ship- ments and re- ceipts ⁶ (mil. doll.)	Capital expen- ditures (mil. doll.)
	Total	With 20 or more employees	Total	Number (1,000)	Total	With 20 or more employees													
All Industries.....	31,359	13,167	68,013	742,241	(NA)	1,114	28,637	188,056	33,617	6,299	688	21,739	451	942	12,443	110,959	157,984	15,418	
Metal mining.....	1,206	1,485	3,504	1,434	(NA)	68	1,860	3,215	2,60	44	1,354	34	68	952	6,850	6,852	399		
Iron ores.....	97	3	1,046	78	(NA)	40	340	770	51	16	224	6	11	166	766	1,322	24		
Copper ores.....	133	544	1,067	81	(NA)	22	604	672	61	33	405	11	21	283	1,301	2,150	205		
Lead and zinc ores.....	88	105	329	71	28	4	112	201	39	19	58	1	3	40	1,176	268	12		
Gold and silver ores.....	175	71	161	371	80	10	263	650	372	13	423	10	21	305	1,814	2,261	555		
Ferroalloy ores, except vanadium.....	56	107	256	69	16	5	150	146	10	1	46	1	2	24	61	110	8		
Metal mining services.....	270	52	112	313	(NA)	3	90	268	42	3	81	2	5	80	176	251	26		
Miscellaneous metal ores.....	387	234	533	451	91	12	332	686	178	42	4	116	3	5	75	313	449	70	
Coal mining.....	5,451	11,266	5,087	1,787	(NA)	251	6,805	18,531	3,905	1,418	163	5,567	129	259	4,251	17,068	25,985	1,685	
Bituminous coal and lignite mining.....	4,944	10,837	4,513	1,787	(NA)	241	6,570	18,041	3,507	1,335	158	5,410	124	249	4,125	16,679	25,347	1,614	
Anthracite mining.....	156	48	1,152	452	(NA)	3	67	172	107	26	2	41	2	3	32	109	206	12	
Coal mining services.....	35	119	313	422	(NA)	7	168	418	291	47	116	3	7	94	280	402	39		
Oil and gas extraction.....	18,447	5,902	48,587	29,974	(NA)	685	17,653	159,937	22,910	3,167	378	11,961	205	437	5,283	80,049	112,383	11,777	
Crude petroleum and natural gas.....	8,573	2,738	12,087	7,327	(NA)	264	8,084	126,035	10,203	1,171	198	7,510	69	142	2,154	67,955	76,518	10,548	
Natural gas liquids.....	692	227	3,286	793	(NA)	14	402	8,865	7,714	210	13	433	10	20	320	4,025	24,700	383	
Oil and gas field services.....	9,182	2,936	6,974	17,094	(NA)	406	25,037	11,993	1,786	167	4,018	127	275	2,809	8,069	11,095	786		
Drilling oil and gas wells.....	2,625	1,317	3,307	4,385	(NA)	166	4,007	11,316	5,691	620	55	1,318	46	93	2,549	3,626	3,626		
Oil and gas exploration services.....	1,252	545	2,934	5,305	(NA)	42	810	2,307	1,917	143	17	452	13	27	3,111	777	1,096		
Oil and gas field services, n.e.c.....	1,299	312	977	5,746	(NA)	199	4,391	11,415	7,485	1,023	95	2,248	69	154	1,486	4,748	6,237		
Nonmetallic mining.....	6,255	1,809	4,656	5,746	(NA)	110	2,276	6,273	1,154	1,454	113	2,856	63	178	1,958	9,233	12,187		
Dimension stone.....	209	19	154	22	(NA)	2	21	50	149	19	1	25	1	2	18	65	86		
Crushed and broken stone ^g	2,055	543	1,932	567	(NA)	37	701	1,787	2,002	711	44	1,082	33	72	754	3,465	4,748		
Sand and gravel.....	418	1,017	2,758	343	(NA)	28	520	1,336	2,750	436	33	772	24	51	551	3,220	3,220		
Clay and related minerals ^g	255	136	358	224	97	11	212	510	197	100	10	272	7	15	165	827	1,249		
Chemical and fertilizer minerals.....	205	372	1,433	196	114	26	681	2,237	148	79	16	501	12	24	336	1,993	2,772		
Nonmetallic minerals ^g	175	36	70	167	(NA)	2	35	270	177	23	1	45	1	12	32	119	277		
Miscellaneous.....	548	87	238	315	72	6	109	283	352	86	7	162	5	10	101	438	616		

NA. Not available. ¹ Gross earnings paid to all employees on payroll. ² Computed by subtracting cost of supplies, minerals received for preparation, purchased fuel and electric energy, contract working foremen, machinery from the value of shipments of unincorporated concerns. ³ Excludes proprietors and firm members of incorporated concerns. ⁴ Represents employees up to straight-time equivalent. ⁵ Includes development and exploration workers. ⁶ Excludes paid vacations, holidays, and sick leave; includes actual overtime hours (not straight-time equivalent). ⁷ Represents value of shipments of primary and secondary products of the industry and amount received for services performed for other establishments on a contract, fee, or other basis. ⁸ Redefined to conform to 1987 and pre-1982 definition of establishment for detail, see source. ⁹ Excludes data for dimension stone quarries operated in conjunction with dressing plants.

Source: U.S. Bureau of the Census, *Census of Mineral Industries: 1977, 1982, and 1987*; final industry series reports.

No. 1168. Mineral Production and Value: 1980 to 1990

[Data represent production as measured by mine shipments, mine sales, or marketable production]

	MINERAL	PRODUCTION QUANTITY								
		Unit	1980	1985	1986	1987	1988	1989		
1	Total mineral production	(X)	(X)	(X)	(X)	(X)	(X)	(X)		
2	Mineral fuels	(X)	(X)	(X)	(X)	(X)	(X)	(X)		
3	Coal: Bituminous and lignite	Mill. sh. ton.	824	879	886	915	947	977	1,033	
4	Pennsylvania anthracite	Mill. sh. ton.	6	5	4	4	4	3	3	
5	Natural gas (wet)	Tril. cu. ft.	20,18	17,27	16,88	17,43	17,92	18,10	18,56	
6	Petroleum (crude)	Mil. bbl.	3,146	3,274	3,168	3,047	2,979	2,779	2,685	
7	Uranium	Mil. lb.	43.7	11.3	13.5	13.0	13.1	13.8	8.9	
8	Industrial minerals	(X)	(X)	(X)	(X)	(X)	(X)	(X)		
9	Abrasive stone	Metric tons	(NA)	(NA)	(D)	11,587	13,313	1,257	3,734	
10	Asbestos	1,000 metric ton	(NA)	57	51	51	51	17	(D)	
11	Asphalt and related bitumens (native)	1,000 sh. ton.	1,252	(D)	(D)	(NA)	(NA)	(NA)	(NA)	
12	Barite	1,000 metric ton	(NA)	(NA)	(NA)	(NA)	404	290	439	
13	Boron minerals	1,000 metric ton	(NA)	(NA)	(NA)	1,256	1,149	1,114	1,094	
14	Bromine	Mil. kilograms	(NA)	(NA)	(NA)	(NA)	183	175	177	
15	Calcium chloride	1,000 sh. ton.	581	(D)	(D)	(D)	(D)	(D)	(D)	
16	Carbon dioxide, natural (estimate)	Mil. cu. ft.	1,628	-	-	-	-	-	-	
17	Cement: Portland	Mill. sh. ton.	71.6	74.3	75.2	74.9	74.1	74.2	75.6	
18	Masonry	Mill. sh. ton.	3.0	3.2	3.5	3.7	3.6	3.3	3.3	
19	Clays	1,000 metric ton	(NA)	(NA)	(NA)	43,234	44,515	42,254	42,904	
20	Diatomite	1,000 metric ton	(NA)	(NA)	(NA)	597	629	617	631	
21	Feldspar	1,000 metric ton	(NA)	(NA)	(NA)	(NA)	649	654	630	
22	Fluorspar	Metric ton	(NA)	(NA)	(NA)	64	64	66	64	
23	Garnet (abrasive)	1,000 sh. ton.	26.8	36.7	32.3	38	43	43	47	
24	Gem stones (estimate)	(X)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
25	Gypsum	Mill. sh. ton.	12.4	14.4	15.4	15.6	16.4	17.6	16.4	
26	Helium	Mil. cu. ft.	1,458	1,865	1,941	2,230	2,574	2,879	3,059	
27	Lime	Mill. sh. ton.	19.0	15.7	14.5	15.7	17.1	17.2	17.5	
28	Magnesium compounds	7	1,000 sh. ton.	(D)	(D)	(D)	(D)	(D)	(D)	
29	Mica: Scrap	1,000 metric ton	(NA)	(NA)	146	130	119	109	109	
30	Peat	1,000 sh. ton.	788	882	1,038	958	905	775	795	
31	Perlite	1,000 sh. ton.	638	507	507	533	645	601	639	
32	Phosphate rock	Mil. metric ton.	(NA)	50.8	40.3	41.0	45.4	49.8	46.3	
33	Potassium salts (K_2O equivalent)	1,000 metric ton	(NA)	1,266	1,147	1,282	1,521	1,595	1,716	
34	Pumice	1,000 metric ton	(NA)	(NA)	(NA)	356	353	424	443	
35	Pyrites	1,000 lg. ton.	834	(D)	(D)	(D)	(D)	(D)	(D)	
36	Salt (common)	Mill. sh. ton.	40.4	40.1	36.7	36.5	38.0	38.4	40.7	
37	Sand and gravel	Mill. sh. ton.	793	830	910	923	952	927	939	
38	Sodium carbonate (natural)	1,000 sh. ton.	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
39	Sodium sulfate (natural)	1,000 metric ton	(NA)	(NA)	(NA)	(NA)	361	340	349	
40	Stone	8	Mil. sh. ton.	982	1,002	1,024	1,200	1,248	1,213	1,222
41	Sulfur: Frasch mines (shipments)	1,000 metric ton	(NA)	4,678	4,180	3,610	4,341	3,780	3,676	
42	Talc, soapstone, pyrophyllite	1,000 metric ton	(NA)	(NA)	(NA)	(NA)	1,234	1,253	(D)	
43	Tripoli	1,000 metric ton	(NA)	(NA)	(NA)	(NA)	100	105	94	
44	Vermiculite	1,000 sh. ton.	337	314	317	303	304	293	230	
45	Nonmetallic minerals, undistributed	8	(X)	(X)	(X)	(X)	(X)	(X)	(X)	
46	Metals	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	
47	Antimony ore and concentrate	Metric ton	10	311	(D)	(D)	(D)	(D)	(D)	
48	Bauxite (dried)	1,000 metric ton	12	1,559	674	510	576	588	(D)	
49	Copper	2	1,000 metric ton	1,181	1,106	1,147	1,244	1,417	1,498	1,587
50	Gold	2	1,000 kilograms	(NA)	(NA)	(NA)	154	201	266	290
51	Iron ore	13	Mil. metric ton	70.7	50.2	42.0	48.0	57.1	58.3	57.0
52	Lead	2	1,000 metric ton	550	414	340	311	385	411	474
53	Manganiferous ore	15	1,000 sh. ton	14	174	20	14	(D)	(D)	(D)
54	Mercury	16	76 lb. flasks	30,657	16,530	(D)	(D)	(D)	(D)	(D)
55	Molybdenum	16	Mil. lb.	149	112	95	70	46	61	62
56	Nickel	17	1,000 sh. ton.	11.0	6.0	2.0	-	-	0.4	4.1
57	Silver	2	Metric ton	(NA)	(NA)	(NA)	1,241	1,661	2,007	2,170
58	Titanium concentrate: Ilmenite	2	1,000 metric ton	14	539	(D)	(D)	(D)	(D)	(D)
59	Tungsten ore and concentrate	Metric ton	18	(NA)	983	817	(D)	(D)	(D)	(D)
60	Vanadium	2	Sh. ton	4,806	(D)	(D)	(D)	(D)	(D)	(D)
61	Zinc mine production	2	1,000 metric ton	317	227	203	216	244	276	515
62	Metals, undistributed	9	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)

- Represents zero. D Withheld to avoid disclosing individual company data. NA Not available. X Not applicable.
¹ 42 gal. bbl. ² Recoverable content of ores, etc. ³ Crude production. Grindstones, pulpstones, millstones, grinding pebbles, sharpening stones, and tubemill liners. ⁴ Contains bituminous limestone and sandstone, and gilsonite. ⁵ Value included in "Industrial minerals, undistributed." ⁶ 1980, crude and refined; thereafter, refined only. ⁷ From sea water and brines, except for metals (M_2O equiv.). ⁸ Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table. Includes calcareous marl and slate.

and Principal Producing States, 1990

(including consumption by producers). See *Historical Statistics, Colonial Times to 1970*, series M 13-37 for selected values]

PRODUCTION VALUE (mil.dol.)							Principal producing States ranked by quantity, 1990	
1980	1985	1986	1987	1988	1989	1990		
146,750	168,154	117,408	123,840	119,102	128,603	141,741	(X)	1
121,612	144,847	93,944	97,499	89,088	96,378	108,422	(X)	2
20,197	22,063	21,001	21,050	20,827	21,268	22,719	WY, KY, WV, PA.	3
259	215	190	157	159	142	133	PA.	4
32,090	43,343	32,717	29,008	30,287	30,627	31,658	TX, LA, OK, NM.	5
67,930	78,871	39,632	46,930	37,479	44,071	53,772	AK, TX, CA, LA, OK.	6
1,136	356	405	356	336	270	140	TX, WY, NM.	7
16,213	17,678	17,847	18,894	19,805	20,357	20,891	(X)	8
2	1	(D)	1	1	-	-	AR, WI, OH.	9
31	21	17	17	(D)	(D)	(D)	CA and VT.	10
25	(5)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	11
66	22	12	16	16	13	16	GA, NV, MO, CA.	12
367	405	426	475	430	430	436	CA.	13
95	80	93	107	144	189	97	AR.	14
48	(5)	(5)	(5)	(5)	(5)	(5)	MI and CA.	15
3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(X)	16
3,613	3,817	3,760	3,647	3,576	3,592	3,683	CA, TX, PA, MI.	17
189	213	232	260	244	229	225	IN, FL, MI, PA.	18
899	1,011	1,085	1,202	1,401	1,515	1,620	GA, CA, WY, SC.	19
101	127	128	134	144	137	138	CA, NV, WA, OR.	20
23	23	26	26	28	28	27	NC, CA, CT, GA.	21
13	(D)	(D)	12	(D)	(D)	(D)	IL, UT, NV.	22
2	3	3	4	5	4	7	ID and NY.	23
7	7	9	21	44	43	53	(X)	24
103	112	100	107	109	128	100	IA, MI, OK, NV.	25
30	70	73	83	95	107	113	KS, WY, TX, NM.	26
843	809	758	786	818	852	902	MO, OH, PA, KY.	27
(5)	(5)	(5)	(5)	(5)	(5)	(5)	MI, CA, FL, DE.	28
6	6	7	8	7	6	6	NC, GA, NM, SC.	29
16	22	24	21	20	18	19	MI, FL, MN, IL.	30
17	17	16	17	18	16	15	NM, AZ, CA, ID.	31
1,257	1,236	897	793	888	1,083	1,075	FL, NC, ID, TN.	32
(NA)	178	152	196	240	272	303	NM, UT, CA, MI.	33
4	5	6	5	4	8	11	CA, OR, AZ, NM.	34
14	(5)	(5)	(5)	(5)	(5)	(5)	AZ.	35
656	740	665	684	680	777	827	NY, OH, LA, MI.	36
2,289	2,812	3,107	3,367	3,514	3,659	3,686	CA, TX, MI, AZ.	37
(5)	(5)	(5)	594	(5)	(5)	(5)	WY and CA.	38
36	36	34	33	31	31	34	CA, TX, UT.	39
3,394	4,225	4,228	5,439	5,558	5,326	5,591	PA, VA, FL, GA.	40
721	574	509	387	431	379	335	TX and LA.	41
26	29	31	29	31	(D)	(D)	MT, TX, NC, VT.	42
1	(D)	1	1	1	3	3	IL, AR, OK, PA.	43
24	32	34	33	34	33	19	SC, MT, VA.	44
941	1,046	994	375	(NA)	(NA)	(NA)	(X)	45
8,921	5,629	5,817	7,447	10,209	11,868	12,428	(X)	46
(1)	(1)	(1)	(NA)	(NA)	(NA)	(NA)	ID.	47
22	13	10	11	11	(D)	(D)	AR and AL.	48
2,667	1,633	1,671	2,262	3,764	4,324	4,310	AZ, NM, UT, MT.	49
594	771	1,377	2,216	2,631	3,269	3,610	NV, CA, UT, SD.	50
2,544	2,077	1,473	1,503	1,717	1,840	1,741	MN, MI, MO, UT.	51
515	174	165	247	315	356	481	MO, AK, ID, CO.	52
2	(D)	(D)	(D)	(D)	(D)	(D)	SC.	53
12	(D)	(D)	(D)	(D)	(D)	(D)	NV, UT, CA.	54
1,344	348	241	179	271	427	346	CO, AZ, ID, MT.	55
(1)	(D)	(D)	-	-	5	33	OR.	56
667	242	189	280	349	355	336	NV, ID, AK, MT.	57
32	(1)	(1)	(1)	(1)	(1)	(1)	FL and CA.	58
50	9	6	(D)	(D)	(D)	(D)	CA.	59
64	(1)	(1)	(1)	(1)	(1)	(1)	CO, ID, AR, UT.	60
262	202	170	200	324	499	847	AK, TN, NY, MO.	61
145	2,235	1,563	1,637	(NA)	(NA)	(NA)	(X)	62

⁹ Comprises value of items that cannot be disclosed. ¹⁰ Antimony content. ¹¹ Included with "Metals, undistributed." ¹² Dried equivalent. ¹³ Represents shipments; includes byproduct ores. ¹⁴ Gross weight. ¹⁵ 5 to 35 percent manganeseiferous ore. ¹⁶ Content of concentrate. ¹⁷ Content of ore and concentrate. ¹⁸ Tungsten content.

Source: U.S. Bureau of Mines, *Minerals Yearbook*. Mineral fuels: U.S. Energy Information Administration, *Annual Energy Review*, *Uranium Industry Annual*; *Petroleum Supply Annual*, vol. 1; *Natural Gas Annual*; and *Quarterly Coal Report*.

No. 1169. Nonfuel Mineral Commodities—Summary: 1991

[Preliminary estimates]

MINERAL	MINERAL DISPOSITION					Average price per unit (dollars)	Employment (number)
	Unit	Production	Exports	Net import reliance ¹ (percent)	Consumption, apparent		
Aluminum	1,000 metric tons	5,400	1,700	(2)	5,000	380.00	23,600
Antimony (contained)	Metric tons	436,500	7,000	57	38,700	382.00	115
Arsenic	Metric tons			100	20,000	568.00	(NA)
Asbestos	1,000 metric tons	(D)	22	95	37	(D)	70
Barite	1,000 metric tons	430	10	70	1,420	36.80	400
Bauxite and alumina	1,000 metric tons	(D)	1,415	100	4,595	15-20	35
Beryllium (contained)	Metric tons	176	25	(2)	170	6,225.00	425
Bismuth (contained)	Metric tons	(D)	90	(D)	7,300	3.10	30
Boron (B ₂ O ₃ content)	1,000 Metric tons	608	620	(2)	340	272.00	1,100
Bromine (contained)	1,000 Metric tons	170	19	1	172	3 ^a .24	300
Cadmium (contained)	Metric tons	1,600	300	54	3,500	8 ^b .20	190
Cement	1,000 sh. tons	71,127	600	11	79,014	950.00	18,000
Cesium (contained)	Kilograms	(D)	(NA)	100	(NA)	10 ^c ,420.00	25
Chromium	1,000 metric tons	11 ^d 84	10	80	420	12 ^e 130.00	(NA)
Clays	1,000 sh. tons	43,000	4,000	(2)	39,000	(5)	11,000
Columbium (contained)	1,000 lb	-	250	100	7,300	12 ^f 2.83	(NA)
Copper (Mine, contained)	1,000 metric tons	1,630	260	(2)	2,120	14 ^g 10.00	13,000
Diamond (industrial)	Mil. carats	93.2	83.2	(2)	83.3	15 ^h .81	(NA)
Diatomite	1,000 metric tons	621	150	(2)	471	16 ⁱ 219.00	1,000
Feldspar	1,000 metric tons	573	6	2	583	1841.88	450
Fluorspar	1,000 metric tons	145	20	87	460	(NA)	180
Gallium (contained)	Kilograms	-	(NA)	(NA)	(NA)	525.00	20
Garnet (industrial)	Metric tons	50,930	10,000	(2)	43,836	60-2,000	150
Gem stones	Mil. dol.	128.2	1,901	98	2,867	(17)	800
Germanium (contained)	Kilograms	15,000	(NA)	(NA)	733,000	18 ^j 060.00	100
Gold (gold contained)	Metric tons	300	270	(NA)	260	19 ^k 370.00	15,000
Graphite (crude)	1,000 metric tons	-	14	100	15	26 ^l 17.00	-
Gypsum	1,000 sh. tons	15,300	40	30	23,000	2 ^m 6.20	6,800
Indium	Metric tons	(NA)	(NA)	(NA)	730	22 ⁿ 18.00	(NA)
Iodine	Metric tons	1,926	2,900	14	2,200	23 ^o 10.70	50
Iron ore (usable)	Mil. metric tons	53.7	2.0	14	62.3	24 ^p 72.5-74	7,300
Iron and steel scrap (metal)	Mil. sh. tons	72.6	18	(2)	63.2	25 ^q 94.54	105,000
Iron and steel slag (metal)	1,000 sh. tons	25,000	6	(NA)	(NA)	21 ^r 5.62	3,000
Lead (contained)	1,000 metric tons	1,180	80	4	1,220	334.00	2,400
Lime	1,000 sh. tons	16,800	49	1	16,920	951.75	5,500
Magnesium metal	1,000 metric tons	26 ^s 130	50	(2)	133	27 ^t 43	450
Magnesium compounds	1,000 metric tons	510	60	15	600	(NA)	650
Manganese	1,000 sh. tons	-	40	100	660	28 ^u 3.70	(NA)
Mercury	Metric tons	50	300	(D)	(D)	29 ^v 10.00	3
Mica, scrap and flake	1,000 metric tons	178	5	9	92	955.00	80
Molybdenum	1,000 metric tons	60	42	(2)	22	18 ^w .39	1,000
Nickel	1,000 sh. tons	8.1	36	74	160	30 ^x 3.80	295
Nitrogen (fixed)-ammonia	1,000 sh. tons	14,000	650	14	16,279	31 ^y 15.00	2,500
Peat	1,000 sh. tons	770	-	44	1,393	924.40	650
Perlite	1,000 sh. tons	603	30	5	663	928.42	120
Phosphate rock	1,000 metric tons	47,000	6,000	(2)	41,450	924.00	5,800
Platinum-group, refined	Kilograms	55,000	30,000	88	105,924	32 ^z 380.00	469
Potash (K ₂ O equivalent)	1,000 metric tons	1,770	650	67	5,343	131.00	2,001
Pumice and pumicite	1,000 metric tons	439	15	22	559	1825.92	55
Rare-earth metals (REO content)	Metric tons	22,700	(NA)	16	26,920	33 ^{aa} 2.87	393
Salt	1,000 sh. tons	40,000	2,000	11	44,300	34 ^{ab} 100.00	4,150
Sand and gravel:							
Construction	Million sh. tons	814.1	0.5	(2)	814.6	9 ^{ac} 3.58	41,000
Industrial	1,000 sh. tons	27,420	1,600	(2)	25,785	915.12	1,500
Silicon	1,000 metric tons	369	34	22	475	35 ^{ad} 38.80	2,400
Silver	Metric tons	1,800	1,500	(NA)	3,600	18 ^{ae} 4.00	2,000
Sodium carbonate (soda ash)	1,000 metric tons	9,300	2,650	(2)	6,807	3698.00	2,800
Sodium sulfate	1,000 metric tons	650	110	6	690	37 ^{af} 14.00	250
Stone (crushed)	Mil. sh. tons	1,081	5	-	1,080	9 ^{ag} 4.53	74,000
Sulfur (all forms)	1,000 metric tons	10,600	1,300	15	12,400	38 ^{ah} 70.00	3,100

¹ Represents or rounds to zero. ² D Withheld to avoid disclosure. ³ NA Not available. ⁴ Net import reliance as a percent of consumption. ⁵ Metal 99% As₂O₃. ⁶ Metal, vacuum-cast ingot. ⁷ Reported consumption. ⁸ Average dollars per pound, 1 to 5 short ton lots. ⁹ Dollars per short ton. ¹⁰ Metal, dollars per pound. ¹¹ Secondary production. ¹² Turkish, dollars per metric ton. ¹³ Columbite, dollars per pound. ¹⁴ Domestic producer cathode, cents per pound. ¹⁵ Dollars, per carat. ¹⁶ Dollars per metric ton. ¹⁷ Variable, depending on size, type, and quality. ¹⁸ Zone refined, first reduction quality. ¹⁹ Dollars per ounce. ²⁰ Price of flake imports, average dollars per metric ton of foreign imports. ²¹ F.O.B. mine, average dollar per short ton. ²² Average annual dollars per kilogram (99.97% indium). ²³ Average c.i.f. value, dollars per kilogram crude. ²⁴ Lake Superior pellets. Cents per long ton unit of iron, delivered rail or vessel at lower lake ports. ²⁵ Average dollars per long ton delivered, No. 1 heavy melting composite price, Iron Age average, Pittsburgh, Philadelphia, Chicago. ²⁶ Primary, Yearend price, dollars per pound. ²⁷ Price per flask. ²⁸ Average price, 46%-48% Mn metallurgical ore, dollars per metric ton unit contained Mn, c.i.f. U.S. ports. ²⁹ Price of f.o.b. gulf coast. ³⁰ Average price, London Metal Exchange cash, dollars per pound. ³¹ Dollars per short ton, yearend quoted, f.o.b. London Metal Exchange cash, dollars per pound. ³² Dealer price of platinum metal, average dollars per ounce; Palladium price was \$89 per ounce; rhodium price was \$4,412 per ounce. ³³ Yearend dollars per kilogram, bastnasite concentrate, REO basis. ³⁴ Vacuum and open pan. ³⁵ Average cents per pound silicon content, ferrosilicon, 50% Si. ³⁶ Quoted yearend price, dense, bulk, f.o.b. Green River, WY, dollars per short ton. ³⁷ Quoted price, bulk, f.o.b. works, East, dollars per short ton. ³⁸ Reported average dollars per metric ton of elemental sulfur, f.o.b., mine and/or plant.

No. 1170. Value of Domestic Nonfuel Mineral Production: 1980 to 1990

[In millions of dollars.]

STATE	1980	1985	1988	1989	1990	Principal minerals in order of value
U.S. ¹	25,141	23,303	30,015	30,015	33,319	(X)
	1,581	1,964	2,505	2,450	2,475	(X)
Northeast						
N.E.	268	325	525	455	443	(X)
ME	37	41	88	65	63	Sand and gravel, cement, and stone.
NH	25	33	253	33	35	Sand and gravel, stone, and gem stones.
VT	43	50	77	89	82	Stone, sand and gravel, and talc.
MA	91	117	192	144	127	Stone, sand and gravel, and lime.
RI	6	12	217	11	18	Sand and gravel, stone, and gem stones.
CT	66	72	118	113	118	Stone, sand and gravel, and feldspar.
M.A.	1,313	1,639	1,980	1,995	2,032	(X)
NY	496	657	696	745	773	Stone, salt, and cement.
NJ	149	178	242	249	229	Stone, sand and gravel, and zircon.
PA	668	804	1,042	1,001	1,030	Stone, cement, and sand and gravel.
	6,611	6,034	6,737	6,980	7,117	(X)
Midwest						
E.N.C.	2,930	2,869	3,524	3,551	3,476	(X)
OH	562	594	737	699	729	Stone, sand and gravel, and salt.
IN	288	303	406	434	432	Stone, cement, and sand and gravel.
IL	443	460	588	633	665	Stone, cement, and sand and gravel.
MI	1,485	1,387	1,588	1,599	1,438	Iron ore, cement, and sand and gravel.
WI	152	125	205	185	212	Stone, sand and gravel, and lime.
W.N.C.	3,681	3,165	3,213	3,429	3,641	(X)
MN	1,782	1,548	1,267	1,376	1,470	Iron ore, sand and gravel, and stone.
IA	252	228	290	283	316	Cement, stone, and sand and gravel.
MO	1,055	735	968	1,050	1,094	Lead, stone, and cement.
ND	22	24	19	14	27	Sand and gravel, lime, and stone.
SD	228	208	286	284	298	Gold, cement, and sand and gravel.
NE	80	100	91	104	90	Cement, sand and gravel, and stone.
KS	262	322	292	318	346	Salt, stone, and cement.
	5,585	6,292	7,099	7,503	7,718	(X)
South						
S.A.	3,454	3,998	4,844	4,985	5,093	(X)
DE	32	24	26	6	7	Sand and gravel and gem stones.
MD	186	258	363	342	369	Stone, sand and gravel, and cement.
VA	305	381	495	509	507	Stone, sand and gravel, and cement.
WV	106	105	127	125	136	Stone, cement, and sand and gravel.
NC	380	466	529	582	565	Stone, phosphate rock, and lithium minerals.
SC	195	276	358	425	450	Stone, cement, and gold.
GA	771	946	1,374	1,387	1,495	Clays, stone, and cement.
FL	1,509	1,562	1,392	1,608	1,564	Phosphate rock, stone, and cement.
E.S.C.	1,030	1,251	1,493	1,537	1,694	(X)
KY	204	268	345	331	359	Stone, lime, and cement.
TN	394	473	586	638	663	Stone, zinc, and cement.
AL	328	407	459	461	561	Stone, cement, and lime.
MS	104	103	103	108	112	Sand and gravel, clays, and cement.
W.S.C.	1,101	1,043	962	981	931	(X)
AR	293	270	307	382	303	Bromine, stone, and sand and gravel.
LA	564	521	435	380	368	Sulfur, salt, and sand and gravel.
OK	224	252	220	219	260	Stone, cement, and iodine.
TX	1,735	1,737	1,469	1,462	1,457	Cement, stone, and magnesium metal.
	9,629	7,276	12,205	13,814	14,546	(X)
West						
Mt	7,223	4,669	8,665	9,985	10,372	(X)
MT	280	200	548	566	568	Gold, copper, and molybdenum.
ID	522	359	291	365	400	Phosphate rock, silver, and molybdenum.
WY	761	551	710	627	911	Soda ash, clays, and helium.
CO	1,265	408	364	458	386	Molybdenum, sand and gravel, and cement.
NM	766	657	1,019	1,122	1,098	Copper, potash, and sand and gravel.
AZ	2,471	1,550	2,773	3,046	3,065	Bromine, stone, and sand and gravel.
UT	764	313	1,015	1,290	1,334	Copper, gold, and magnesium metal.
NV	394	631	1,945	2,310	2,611	Gold, silver, and sand and gravel.
Pac	2,406	2,807	3,540	3,828	4,173	(X)
WA	207	222	459	481	473	Sand and gravel, gold, and magnesium metal.
OR	152	130	178	188	237	Stone, sand and gravel, and cement.
CA	1,872	2,112	2,709	2,854	2,780	Sand and gravel, cement, and boron.
AK	115	90	119	213	577	Zinc, lead, and silver.
HI	60	53	75	92	106	Stone, cement, and sand and gravel.

X Not applicable. ¹ Includes undistributed not shown separately. ² Partial data only.Source: U.S. Bureau of Mines, *Minerals Yearbook*, annual.

No. 1171. Mineral Industries—Gross Assets and Capital Expenditures: 1972 to 1987

[In millions of dollars]

INDUSTRY AND YEAR	END OF YEAR GROSS VALUE OF DEPRECIABLE ASSETS					CAPITAL EXPENDITURES					
	Total ¹	Buildings and other structures	Machinery and equipment	Mineral exploration and development ¹	Mineral land and rights ¹	Total ¹	New buildings and other structures	New machinery and equipment	Used buildings and other structures	Used machinery and equipment	Mineral exploration and development ¹
Mineral industries: ²											
1972	21,890	4,244	15,038	(³)	2,409	2,802	317	1,407	(³)	3128	230
1977	44,664	6,098	33,068	2,625	2,871	6,802	785	5,068	30	399	520
1982	94,613	10,228	73,419	5,036	5,930	13,472	1,229	10,551	78	937	677
1987	84,286	9,314	64,143	5,034	5,795	4,869	349	3,234	88	797	401
Crude oil, nat. gas:											
1972	47,500	(NA)	(NA)	(NA)	(NA)	2,954	403	842	(³)	344	1,666
1977	94,414	(NA)	(NA)	(NA)	(NA)	10,916	571	2,269	14	93	7,969
1982	233,052	(NA)	(NA)	(NA)	(NA)	34,281	1,967	5,550	20	215	26,529
1987	(NA)	(NA)	(NA)	(NA)	(NA)	10,549	590	3,176	18	218	6,548

NA Not available. ¹ Excludes data for mineral exploration and development, and mineral land and rights portions for mining services industries and natural gas liquids industry. ² Excludes crude petroleum and natural gas. ³ Not collected separately. Data for mineral exploration and development are combined with mineral land and rights. Data for used buildings and other structures are combined with used machinery and equipment.

Source: U.S. Bureau of the Census, *Census of Mineral Industries*, 1987.

No. 1172. Mineral Industries—Employment, Hours, and Earnings: 1985 to 1991

ITEM	Unit	1985	1990	1991	ITEM	Unit	1985	1990	1991
All mining:					Avg. weekly hours	No	44.2	43.9	44.5
All employees	1,000	927	711	697	Avg. weekly earnings	Dol	489	568	602
Production workers	1,000	658	510	498	Metal mining:				
Avg. weekly hours	No	43.4	44.1	44.4	All employees	1,000	46	59	59
Avg. weekly earnings	Dol	520	604	631	Production workers	1,000	34	46	47
Coal mining:					Avg. weekly hours	No	40.9	42.7	42.9
All employees	1,000	187	148	139	Avg. weekly earnings	Dol	547	601	640
Production workers	1,000	153	120	113	Nonmetallic minerals, except fuels:				
Avg. weekly hours	No	41.3	44.0	44.6	All employees	1,000	110	111	107
Avg. weekly earnings	Dol	626	736	763	Production workers	1,000	84	84	80
Oil and gas extraction:					Avg. weekly hours	No	44.5	645.3	44.6
All employees	1,000	583	394	392	Avg. weekly earnings	Dol	453	524	530
Production workers	1,000	387	260	257					

Source: U.S. Bureau of Labor Statistics, *Bulletin 2370* and *Employment and Earnings*, monthly.

No. 1173. Selected Mineral Products—Average Prices: 1970 to 1990

[Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1970*, series M 96, M 139, M 208, M 248, and M 262, for bituminous coal, crude petroleum, iron ore, lead, and aluminum, respectively]

YEAR	Tantalum (dol. per lb.) ¹	Copper, electro- lytic (cents per lb.)	Plat- inum ³ (dol./ troy oz.)	Gold (dol./ fine oz.)	Silver (dol./ fine oz.)	Lead ⁴ (cents per lb.)	Tin (New York) ⁵ (cents per lb.)	Zinc ⁶ (cents per lb.)	Sulfur, crude (dol./ metric ton)	Bitumi- nous coal ⁸ (dol./ short ton)	Crude petro- leum ⁸ (dol./ bbl.)	Natural gas ⁸ (dol./ 1,000 cu. ft.)
1970	9.15	58	133	36	1.77	15.7	174.2	15.3	922.77	6.26	3.18	0.17
1975	18.32	64	164	161	4.42	21.5	339.8	39.0	944.91	18.23	7.67	0.45
1976	20.31	69	162	125	4.35	23.1	379.8	37.1	945.72	19.43	8.19	0.56
1977	25.64	66	162	148	4.62	30.7	534.6	34.4	944.38	19.82	8.57	0.79
1978	34.19	66	237	194	5.40	33.7	629.6	31.0	45.17	21.78	9.00	0.91
1979	80.00	92	352	308	11.09	52.6	753.9	37.3	55.75	23.65	12.64	1.18
1980	126.37	101	439	613	20.64	42.5	846.0	37.4	89.06	24.52	21.59	1.59
1981	99.51	84	475	460	10.52	36.5	733.0	44.6	111.48	26.29	31.77	1.98
1982	49.95	73	475	376	7.95	25.5	653.9	38.5	108.27	27.14	28.52	2.46
1983	30.60	77	475	424	11.44	21.7	654.8	41.4	87.24	25.85	26.19	2.59
1984	37.44	67	475	361	8.14	25.6	623.8	48.6	94.31	25.51	25.88	2.66
1985	33.68	67	475	318	6.14	19.1	596.0	40.4	106.46	25.10	24.09	2.51
1986	23.74	66	519	368	5.47	22.1	383.2	38.0	105.22	23.70	12.51	1.94
1987	27.08	83	600	448	7.01	35.9	418.8	41.9	89.78	23.00	15.40	1.67
1988	47.37	120	600	438	6.53	37.1	441.4	60.2	85.95	22.00	12.58	1.69
1989	44.93	131	600	393	5.50	39.4	520.2	83.0	88.00	21.76	15.86	1.69
1990, prel.	38.06	123	600	387	4.82	46.02	386.3	(NA)	22.00	20.03	1.72	

NA Not available. ¹ Dollars per pound of tantalum content. ² Average producer prices, delivered. ³ Average annual producer prices. ⁴ 1970, New York prices; beginning 1975, nationwide delivered basis. ⁵ Straits tin through 1975; thereafter, composite price. ⁶ Prime western. Beginning 1975, delivered price. ⁷ F.O.B. works. ⁸ Average value at the point of production. Source: U.S. Energy Information Administration, *Annual Energy Review*. ⁹ Per long ton.

Source: Except as noted, U.S. Bureau of Mines, *Mineral Facts and Problems*, 1980 edition; and *Mineral Commodity Summaries*, annual.

No. 1174. Principal Fuels, Nonmetals, and Metals—U.S. Production as Percent of World Production: 1980 to 1990

MINERAL	WORLD PRODUCTION					PERCENT U.S. OF WORLD			
	Unit	1980	1985	1989, prel.	1990, est.	1980	1985	1989, prel.	1990, est.
Fuels: ¹									
Coal	Bil. sh. ton	4.2	4.8	5.2	(NA)	20	18	19	(NA)
Petroleum (crude)	Bil. bbl	21.7	19.6	21.8	(NA)	14	17	13	(NA)
Natural gas (dry, marketable)	Tril. cu. ft	53.1	62.0	71.9	(NA)	37	26	24	(NA)
Natural gas plant liquids	Bil. bbl	1.4	1.5	1.7	(NA)	43	38	35	(NA)
Nonmetals:									
Asbestos	Mil. metric ton	5	4	4	4	2	1	(Z)	(D)
Barite	Mil. short ton	8.3	6.7	6.1	6.1	27	11	5	8
Feldspar	Mil. short ton	3.5	4.5	5.7	5.5	20	16	13	13
Fluor spar	Mil. short ton	5.5	5.5	6.2	5.6	2	1	1	1
Gypsum	Mil. short ton	86.4	97.3	109.0	107.7	13	15	16	15
Mica (incl. scrap)	1,000 short ton	251.6	281.1	253.0	236.5	46	49	52	51
Nitrogen, agricultural ²	Mil. short ton	81.2	100.3	109.7	107.9	20	14	13	13
Phosphate rock	Mil. metric ton	144	149	159	154	38	34	31	30
Potash	Mil. metric ton	28	29	29	29	8	4	5	6
Sulfur, elemental	Mil. metric ton	55	54	59	58	22	22	20	20
Metals, mine basis:									
Bauxite	Mil. metric ton	89	84	106	109	2	1	(D)	(D)
Columbian concentrates (columbian content)	Mil. lb.	33.4	32.7	30.3	27.1	-	-	-	-
Copper ³	Mil. metric ton	7	8	9	9	16	14	17	18
Gold	Mil. troy oz	39.2	49.2	64.3	65.9	2	5	13	14
Iron ore	Mil. metric ton	891	861	926	919	8	6	6	6
Lead ³	1,000 metric ton	3,470	3,431	3,368	3,367	17	12	12	15
Mercury	1,000 flasks ⁴	197	178	182	168	16	8	7	(NA)
Molybdenum ³	Mil. lb.	244	217	257	246	62	50	54	55
Nickel ³	1,000 short ton	859	896	1,067	1,029	2	1	-	(Z)
Silver	Mil. troy oz	343	420	475	486	9	9	14	14
Tantalum concentrates (tantalum content)	Mil. lb.	1.2	0.7	0.8	0.8	-	-	-	-
Titanium concentrates:									
Ilmenite	Mil. short ton	4.1	3.8	4.7	4.5	14	(D)	(D)	(D)
Tungsten	1,000 metric ton	52	47	42	40	5	2	(D)	(D)
Vanadium ³	1,000 short ton	40.7	33.3	37	37.3	12	(D)	(D)	(D)
Zinc ³	Mil. metric ton	6	7	7	7	5	4	4	7
Metals, smelter basis:									
Aluminum	1,000 metric ton	15,383	15,398	18,020	17,817	30	23	22	23
Cadmium	1,000 metric ton	18.2	18.9	21.1	20.2	9	8	7	8
Copper	Mil. metric ton	8	9	10	9	14	14	16	16
Iron, pig (incl. ferroalloys)	Mil. short ton	567	550	603	594	12	9	9	9
Lead	1,000 metric ton	5,397	5,641	5,987	5,942	23	20	22	22
Magnesium	1,000 short ton	348	358	379	387	49	42	44	40
Steel ingots and castings	Mil. short ton	790	792	862	851	14	11	11	12
Tin	1,000 metric ton	245	181	250	250	1	2	1	(NA)
Zinc	1,000 metric ton	6,049	6,798	7,203	7,041	6	5	5	5

¹ Represents or rounds to zero. ² Withheld to avoid disclosing company data. ³ NA Not available. ⁴ Less than half the unit of measure. ⁵ Source: Energy Information Administration, *International Energy Annual*. ² For fiscal years ending in year shown; see text, section 9. U.S. production includes Puerto Rico. ³ Content of ore and concentrate. ⁴ 76-lb. flasks.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*, annual.

No. 1175. Federal Strategic and Critical Materials Inventory: 1980 to 1990

[As of Dec. 31. Covers strategic and critical materials essential to military and industrial requirements in time of national emergency. Market values are estimated current trade values of similar materials and not necessarily amounts that would be realized at time of sale]

MINERAL	QUANTITY ¹					VALUE (mil. dol.)			
	Unit	1980	1985	1989	1990	1980	1985	1989	1990
Tin	1,000 metric ton.	200	185	171	169	3,158	2,324	1,182	962
Silver	1,000 troy oz.	139,500	136,006	98,174	92,151	2288	801	543	374
Cobalt	Mil. lb.	41	53	53	53	1,020	590	406	443
Bauxite ²	1,000 lg. ton.	14,333	17,957	18,032	18,033	583	871	888	888
Manganese ³	1,000 sh. ton.	5,130	4,470	4,109	4,017	599	520	881	962
Tungsten ⁴	Mil. lb.	97	87	80	82	817	369	291	253
Zinc	1,000 sh. ton.	380	378	379	379	317	268	556	483
Titanium	1,000 sh. ton.	43	48	37	37	432	405	402	402
Platinum	1,000 troy oz.	466	466	453	453	215	154	231	186
Chromium ⁵	1,000 sh. ton.	804	854	1,022	1,074	773	836	952	917
Diamonds, Stones	Carat	19,224	12,549	7,777	7,777	349	336	267	267
Industrial, bort.	Carat	23,693	22,001	22,001	17,353	73	39	21	16

¹ Consists of stockpile and nonstockpile grades and reflects uncommitted balances. ² Consists of abrasive grade, metallic grade Jamaica, metallic grade Suriname, and refractory. ³ Consists of chemical grade, dioxide battery natural, dioxide battery synthetic, electrolytic, ferro-high carbon, ferro-med. carbon, ferro-silicon, and metal. ⁴ Consists of carbide powder, ferro, metal powder, and ores and concentrates. ⁵ Consists of ferro-high carbon, ferro-low carbon, ferro-silicon, and metal.

Source: U.S. Defense Logistics Agency, *Statistical Supplement, Stockpile Report to the Congress* (AP-3).

No. 1176. Selected Mineral and Metal Products—Quantity and Value of Imports and Exports: 1980 to 1990

[Imports represent imports for consumption. Exports include shipments under foreign aid programs. Includes trade of Puerto Rico with foreign countries]

PRODUCT	QUANTITY					VALUE (mil. dol.)			
	Unit	1980	1985	1989	1990	1980	1985	1989	1990
IMPORTS									
Petroleum (crude)	Mil. bbl	1,975	1,625	(NA)	(NA)	61,898	22,608	(NA)	(NA)
Gem stones: Diamonds	Mil. caret	4.2	8.2	10.0	7.5	2,251	3,007	4,358	3955
Ores and concentrates:									
Chromium (Cr_2O_3 content)	1,000 metric ton	372	160	525	306	57	20	44	22
Copper	1,000 metric ton	14	3	47	91	73	2	51	131
Iron.	Mil. lg. ton	25.1	15.8	19.3	17.8	773	452	522	560
Tungsten.	Mil. lb	11.4	10.5	17.4	14.2	87	37	45	31
Metals:									
Aluminum	1,000 sh. ton	581	958	1,017	1058	778	1,017	1,898	1,597
Cobalt ²	Mil. lb	15.0	16.6	12.8	13.8	359	181	97	109
Copper refined ingots, etc.	1,000 metric ton	427	378	304	262	935	492	866	675
Gold (bullion)	1,000 troy oz	4,080	6,361	3118	2,082	2,507	2,109	1,199	795
Iron and steel products (major)	Mil. sh. ton	15.5	24.3	17.3	17.2	7,713	10,874	7,591	38,300
Platinum group ⁴	1,000 troy oz	3,502	3,990	3,642	4,030	1,177	1,026	1,382	1,906
Silver (bullion)	Mil. troy oz.	64.9	137.4	98.4	86.7	1,332	856	579	437
Zinc: Blocks, pigs, slabs	1,000 sh. ton	452	673	784	696	319	508	1,184	992
EXPORTS									
Fuels: ¹									
Bituminous coal	Mil. sh. ton	89.9	84.0	(NA)	(NA)	4,523	3,862	(NA)	(NA)
Petroleum (crude)	Mil. bbl	30.8	6.0	(NA)	(NA)	751	117	(NA)	(NA)
Nonmetallic minerals:									
Gem stones: Diamonds	Mil. carat	1.3	2.4	1.1	1.0	1,041	571	1,244	1,899
Nitrogen compounds (maj.)	Mil. sh. ton.	11.1	10.8	13.8	13.1	1,842	1,553	(NA)	(NA)
Phosphatic fertilizers ⁵	Mil. sh. ton.	7.2	6.1	10.6	10.2	1,383	1,225	1,760	1,515
Metals:									
Aluminum: Ingots, slabs, crude	1,000 sh. ton	715	383	654	749	1,107	442	1,261	1,161
Plates, sheets, bars, etc.	1,000 sh. ton	306	185	492	482	716	411	1,380	1,406
Gold (refined bullion)	1,000 troy oz	4,702	2,888	3,974	4,531	2,787	919	1,490	1,719
Iron and steel products (major)	Mil. sh. ton	4.1	0.9	4.6	4.3	3,504	1,321	2,063	32,800
Magnesium ⁶	1,000 sh. ton	56.8	40.3	62.4	57.1	128	114	170	164
Molybdenum ⁷	1,000 lb.	614	574	253	180	5	2	3	2
Silver (refined bullion)	Mil. troy oz.	57.2	12.6	13.8	23.7	1,327	82	78	120
Scrap exports:									
Aluminum	1,000 sh. ton	445	413	633	592	483	351	769	719
Iron and steel	Mil. sh. ton.	11.4	10.2	12.5	12.8	1,257	940	1,777	1,653

NA Not available. ¹ Source: U.S. Bureau of the Census, *U.S. Imports for Consumption and General Imports*, *TSUSA Commodity and Country*, FT 246, annual; and *U.S. Exports, Schedule B Commodity and Country*, FT 446, annual; 1989 and 1990, *U.S. Exports of Merchandise* and *U.S. Imports of Merchandise* compact discs, December Issues. ² Includes unwrought metal, waste and scrap. ³ Estimate. ⁴ Unwrought and semimanufactured. ⁵ Superphosphates and ammonium phosphates. ⁶ Metal and alloys, scrap, semimanufactured forms. ⁷ Metals and alloys, crude and scrap.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1177. Mineral Industries—Lost Workday Injuries and Fatalities: 1980 to 1990

[Excludes office workers. Lost workday injuries are nonfatal occurrences that result in days away from work, days of restricted work activity or a permanent disability. Data for all years includes injuries to independent contractors at mine sites. Beginning with 1985, rates for the non-coal industries are based only on employment and hours worked by mine employees. See also *Historical Statistics, Colonial Times to 1970*, series M 271-286.]

ITEM	COAL MINING			QUARRYING: RELATED INDUSTRY ¹			METAL: NONMETAL MINING ²		
	1980	1985	1990	1980	1985	1990	1980	1985	1990
Injuries, total	18,822	9,141	12,292	3,551	2,571	3,812	6,923	2,234	3,804
Fatal	133	68	66	42	26	18	46	22	26
Rate per million work-hrs:									
Fatal	0.3	0.2	0.2	0.3	0.2	0.13	0.2	0.2	0.2
Nonfatal	43	27	41	21	19	28	28	17	25
Fatalities per 1,000 employed ³	0.55	0.36	0.4	0.5	0.4	0.2	0.3	0.3	0.3

¹ Includes cement. ² Nonmetal mines exclude extraction of Frasch process sulfur. ³ Average number of persons at work each day mines were active.

Source: U.S. Mine Safety and Health Administration, Denver, CO, unpublished data.

No. 1178. Net U.S. Imports of Selected Minerals and Metals as Percent of Apparent Consumption, 1980 to 1991, and by Major Foreign Sources, 1982 to 1991

[In percent. Figures based on net imports which equal the difference between imports and exports plus or minus government stockpile and industry stock changes]

MINERAL	1980	1985	1987	1988	1989	1990	1991	Rank of major foreign sources, 1982-91
Columbium	100	100	100	100	100	100	100	Brazil, Canada, Thailand.
Manganese	98	100	100	100	100	100	100	South Africa, France, Gabon.
Mica (sheet)	100	100	100	100	100	100	100	India, Belgium, France.
Strontrium	100	100	100	100	100	100	100	Mexico, Spain.
Bauxite	94	96	96	97	96	98	100	Australia, Guinea, Jamaica.
Asbestos	78	65	40	75	75	90	90	Canada, South Africa.
Platinum group	88	92	91	91	90	88	88	So. Africa, United Kingdom, U.S.S.R.
Tantalum	90	89	85	80	86	86	85	Thailand, Germany, Brazil.
Cobalt	93	94	87	87	83	84	82	Zaire, Zambia, Canada.
Chromium	91	75	75	78	78	79	80	South Africa, Turkey, Zimbabwe.
Tungsten	53	68	79	76	77	73	75	China, Bolivia, Canada.
Nickel	71	71	79	73	69	72	74	Canada, Norway, Australia.
Tin	79	72	74	78	77	71	73	Brazil, Thailand, Malaysia.
Barium	44	74	65	74	77	69	70	China, Morocco, India.
Potassium	65	76	75	71	65	68	67	Canada, Israel, U.S.S.R.
Antimony	48	63	63	65	56	51	57	China, South Africa.
Cadmium	55	57	64	48	62	46	54	Canada, Australia, Mexico.
Selenium	59	(D)	(D)	52	55	46	52	Canada, United Kingdom, Japan.
Petroleum ^{2'3'}	37	27	36	38	42	42	(NA)	Mexico, Canada, Venezuela.
Zinc	60	70	71	69	61	41	30	Canada, Mexico, Peru.
Gypsum	35	38	38	36	35	36	30	Canada, Mexico, Spain.
Iron ore	25	21	22	18	22	21	14	Canada, Brazil, Venezuela.
Iron and steel	15	22	20	19	13	13	12	E.E.C. ⁴ , Japan, Canada.
Sulfur	14	5	7	16	9	11	15	Canada, Mexico.
Natural gas ^{3'}	5	5	5	7	7	8	(NA)	Canada, Algeria.
Copper	14	28	26	13	7	3	(3)	Chile, Canada, Peru.
Aluminum	(5)	16	23	7	(5)	(5)	(5)	Canada, Japan, Venezuela.
Silver	7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	Canada, Mexico, Peru.
Mercury	26	50	(NA)	(NA)	(D)	(D)	(D)	Spain, China, Japan.
Titanium ^{5'}	32	(D)	(D)	(D)	(D)	(D)	(D)	Australia, Canada, South Africa.
Vanadium	35	(D)	(D)	(D)	(D)	(D)	(D)	South Africa, E.E.C. ⁴ .

D Withheld to avoid disclosure. NA Not available. ¹ Includes alumina. ² Includes crude and products. ³ Source: Energy Information Administration, *Annual Energy Review*, and *Monthly Energy Review*. ⁴ European Economic Community. ⁵ Net exports. ⁶ Ilmenite.

Source: Except as noted, U.S. Bureau of Mines, *Mineral Commodity Summaries*; import and export data from U.S. Bureau of the Census.

No. 1179. Federal Offshore Leasing, Exploration, Production, and Revenue: 1975 to 1990

[See source for explanation of terms and for reliability statement]

ITEM	Unit	1975	1980	1984	1985	1986	1987	1988	1989	1990
Tracts offered	Number	1,374	483	27,984	15,754	10,724	10,926	33,376	11,013	10,459
Tracts leased	Number	321	218	1,400	667	142	640	1,856	1,049	825
Acres offered	1,000	7,247	2,563	154,384	87,029	58,670	59,762	85,366	60,096	56,788
Acres leased	1,000	1,680	1,134	7,495	3,512	734	45,075	10,040	5,580	4,263
Bonus paid for leased tracts	Bil. dol.	1.1	4.2	4.0	1.5	0.2	0.5	1.2	0.6	0.6
New wells being drilled:										
Active	Number	97	191	253	195	95	142	116	123	120
Suspended	Number	292	739	313	348	279	265	289	361	266
Wells completed	Number	6,104	9,638	13,012	12,285	12,536	12,736	12,827	12,938	13,167
Wells plugged and abandoned	Number	5,617	8,057	9,803	10,487	11,909	12,373	13,164	13,846	14,677
Revenue, total ¹	Bil. dol.	1.7	6.4	8.0	5.2	2.8	2.9	3.4	2.8	3.3
Bonuses	Bil. dol.	1.1	4.2	4.0	1.5	0.2	0.5	1.2	0.6	0.6
Oil and gas royalties	Bil. dol.	0.6	2.1	4.0	3.6	2.6	2.3	2.1	2.1	2.6
Rentals	Bil. dol.	(Z)	(Z)	(Z)	0.1	0.1	0.1	0.1	0.1	0.1
Production, value ²	Bil. dol.	3.9	13.1	24.0	22.2	15.7	14.6	12.9	13.0	16.5
Crude oil	Bil. dol.	2.2	4.8	9.6	9.6	5.8	5.6	4.2	4.4	5.9
Condensate	Bil. dol.	0.2	0.4	1.2	1.0	0.7	0.7	0.7	0.8	1.1
Natural gas	Bil. dol.	1.5	7.9	13.2	11.5	9.3	8.1	7.9	7.8	9.5
Production:										
Crude oil	Mil. bbls.	303	259	330	352	350	325	279	260	274
Condensate	Mil. bbls.	27	19	40	37	39	41	41	45	51
Natural gas	Tril. cu. ft.	3,459	4,641	4,537	4,000	3,949	4,425	4,310	4,200	(NA)

NA Not available. Z Less than \$50 million. ¹ Includes condensate royalties. ² Production value is value at time of production, not current value.

Source: U.S. Dept. of the Interior, Minerals Management Service, *Federal Offshore Statistics*, annual.

No. 1180. Petroleum Industry—Summary: 1975 to 1990

ITEM	Unit	1975	1980	1984	1985	1986	1987	1988	1989	1990, est.
Crude oil producing wells (Dec. 31)										
Daily output per well	1,000.	500	548	621	647	623	620	612	603	588
Bbl.	16.8	15.9	14.3	13.9	13.9	13.5	13.5	12.6	12.6	12.4
Completed wells drilled, total		1,000.	39	70	85	70	40	38	32	28
Crude oil	1,000.	17	32	43	35	19	16	13	10	12
Gas	1,000.	8	17	17	14	8	8	8	9	10
Dry	1,000.	14	20	26	21	13	12	10	8	8
Crude oil production, total	Mil. bbl.	3,057	3,146	3,250	3,275	3,168	3,047	2,979	2,785	2,685
Value at wells	Bil. dol.	23.5	67.9	84.1	78.8	39.6	46.9	37.5	44.1	53.4
Average price per barrel	Dollars	7.67	21.59	25.88	24.09	12.51	15.40	12.58	15.86	20.03
Refinery input of crude oil	Mil. bbl.	4,541	4,934	4,408	4,381	4,641	4,692	4,848	4,891	4,895
Imports: Crude oil	Mil. bbl.	1,498	1,926	1,254	1,168	1,525	1,706	1,869	2,133	2,145
Refined petroleum products	Mil. bbl.	712	603	736	681	747	731	840	809	759
Import value	Mil. dol.	25,059	74,440	54,310	50,368	34,790	41,495	39,981	49,028	60,747
Export value	Mil. dol.	1,007	2,871	4,801	5,121	3,883	3,922	2,802	2,859	4,419
Operable refineries	Number	279	319	247	223	216	219	213	204	205
Capacity (Jan. 1)	Mil. bbl.	5,461	6,584	5,906	5,716	5,643	5,681	5,825	5,714	5,683
Output	Mil. bbl.	4,995	5,352	5,007	5,019	5,301	5,339	5,498	5,539	5,570
Utilization rate	Percent	85.5	75.4	76.2	77.6	82.9	83.1	84.7	86.8	87.3
Proved reserves	Bil. bbl.	32.7	29.8	28.4	28.4	26.9	27.3	26.8	26.5	26.3

Source: U.S. Energy Information Administration, *Annual Energy Review*, and *Petroleum Supply Annual*.**No. 1181. Crude Petroleum and Natural Gas Wells Drilled—Summary: 1970 to 1990**

[Includes all costs incurred for drilling and equipping wells to point of completion as productive wells or abandonment after drilling becomes unproductive. Based on sample of operators of different size drilling establishments]

ITEM	Unit	1970	1975	1980	1984	1985	1986	1987	1988	1989	1990
Wells drilled	Number	27,177	36,960	62,011	77,210	67,821	37,173	33,041	29,741	26,693	28,513
Offshore	Number	1,058	1,028	1,272	1,421	1,247	898	709	866	746	704
Footage drilled	Mil. ft.	136.9	177.6	296.0	350.6	314.5	176.3	157.4	150.2	131.5	143.8
Drilling cost	Mil. dol.	2,579	6,571	22,800	25,206	23,697	13,552	9,239	10,550	9,669	10,937
Average depth per well	Feet	5,037	4,806	4,773	4,541	4,637	4,742	4,762	5,051	4,925	5,043
Average cost per well	\$1,000.	95	178	368	326	349	365	280	355	362	384
Offshore	\$1,000.	568	1,142	3,024	3,536	4,073	4,004	2,896	3,112	3,197	3,112
Average cost per foot	Dollars	16.84	36.99	77.02	71.90	75.35	76.88	58.71	70.23	73.55	76.07

Source: American Petroleum Institute, *Joint Association Survey of Drilling Costs*, annual.**No. 1182. Domestic Motor Gasoline Supply: 1975 to 1990**

[In 1,000 barrels per day, except as noted]

ITEM	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
Supply ¹	6,675	6,579	6,539	6,622	6,693	6,831	7,034	7,206	7,336	7,328	7,235
Unleaded	(NA)	3,067	3,409	3,647	3,987	4,406	4,854	5,470	5,995	6,507	6,850
Production	6,520	6,506	6,338	6,340	6,453	6,419	6,752	6,841	6,956	6,963	6,959
Net imports	182	139	177	237	293	371	293	349	383	330	287
Stocks (mil. bbl.) ²	235	261	235	222	243	223	233	226	228	213	220

NA Not available. ¹ Production plus net imports less net increase in primary stocks. ² End of year, includes motor gasoline blending components.Source: U.S. Energy Information Administration, *Monthly Energy Review*.**No. 1183. Natural Gas Plant Liquids—Production and Value: 1970 to 1990**[Barrels of 42 gallons. See also *Historical Statistics, Colonial Times to 1970*, series M 143-146]

ITEM	Unit	1970	1975	1980	1984	1985	1986	1987	1988	1989	1990
Field production ¹	Mil. bbl.	606	596	576	596	587	566	582	595	564	566
Pentanes plus	Mil. bbl.	197	149	126	107	103	98	106	111	113	112
Liquefied petroleum gases	Mil. bbl.	400	444	441	488	479	466	474	483	451	454
Natural gas processed	Tril. cu. ft.	19	18	15	14	13	213	13	13	13	15

¹ Includes other finished petroleum products, not shown separately. ² Estimated.Source: Through 1975, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Energy Data Reports, Petroleum Statement Annual, Petroleum Supply Annual*, and *Natural Gas Annual*.

No. 1184. U.S. Petroleum Balance: 1980 to 1990
 [In millions of barrels]

ITEM	1980	1984	1985	1986	1987	1988	1989	1990
Petroleum products supplied	6,242	5,756	5,740	5,942	6,083	6,308	6,324	6,201
New supply of products	6,249	5,800	5,676	5,995	6,053	6,290	6,270	6,259
Production of products	5,765	5,392	5,363	5,604	5,680	5,849	5,874	5,934
Crude input to refineries	4,934	4,408	4,381	4,641	4,692	4,835	4,891	4,894
Oil, field production	3,146	3,250	3,275	3,168	3,047	2,979	2,779	2,685
Alaska	592	631	666	681	716	738	684	647
Lower 48 States	2,555	2,619	2,608	2,487	2,331	2,241	2,095	2,037
Net imports	1,821	1,188	1,094	1,468	1,651	1,807	2,081	2,112
SPR ¹ imports	1,910	1,182	1,125	1,507	1,679	1,845	2,112	2,142
Exports	16	72	43	18	27	19	20	10
Other sources	-105	66	75	56	55	57	52	40
Natural gas plant liquids (NGPL), supply	33	29	12	4	7	57	32	98
Other liquids	577	596	604	575	585	593	563	574
Net imports of refined products	253	371	378	388	403	418	420	465
Imports	484	407	313	391	373	441	396	326
Exports	578	604	523	621	596	681	656	598
Stock withdrawal, refined products	94	197	210	229	223	240	260	272
Ending stocks, all oils	-7	-44	64	-53	30	17	53	-59
Crude oil and lease condensate	1,392	1,556	1,519	1,583	1,607	1,597	1,581	1,621
Strategic Petroleum Reserve (SPR) ¹	358	345	321	331	349	330	341	323
Unfinished oils	108	451	493	512	541	560	580	586
Gasoline blending components	124	94	107	94	93	100	(NA)	(NA)
Pentanes plus	17	39	33	39	38	39	(NA)	(NA)
Finished refined products	(NA)	8	8	7	7	7	(NA)	(NA)
PRODUCT TYPE SUPPLIED								
Total products	6,242	5,756	5,740	5,942	6,083	6,326	6,324	6,201
Fininished motor gasoline	2,407	2,449	2,493	2,567	2,630	2,678	2,675	2,641
Distillate fuel oil	1,049	1,041	1,047	1,064	1,086	1,140	1,152	1,103
Residual fuel oil	918	501	439	518	482	5,030	500	449
Liquified petroleum gases ²	414	576	584	652	588	604	609	568
Pentanes plus, other liquids, etc	1,454	1,165	1,155	1,223	1,304	1,369	1,378	1,431
Crude oil	(NA)	23	22	18	12	15	10	9

NA Not available. ¹ SPR—Strategic petroleum reserve. For more information, see table 932. ² Includes ethane.

Source: U.S. Energy Information Administration, *Petroleum Supply Annual*.

No. 1185. Crude Petroleum and Natural Gas—Production, by State: 1985 to 1990

[See also *Historical Statistics, Colonial Times to 1970*, series M 138, M 142, and M 147-161.]

STATE	CRUDE PETROLEUM						NATURAL GAS MARKETED PRODUCTION ¹					
	Quantity (mil. bbl.)			Value (mil. dol.)			Quantity (bil. cu. ft.)			Value (mil. dol.)		
	1985	1989	1990	1985	1989	1990	1985	1989	1990	1985	1989	1990
Total²	3,274	2,779	2,685	78,884	44,071	53,772	17,270	18,095	18,562	43,343	30,627	31,658
AL	22	18	18	579	316	387	107	128	135	398	349	373
AK	666	693	658	10,655	8,135	10,086	321	394	403	236	536	554
AR	19	11	10	443	191	222	155	174	175	393	420	360
CA	424	325	322	8,386	4,564	5,732	491	363	363	1,653	841	857
CO	30	29	31	758	542	722	178	217	243	517	329	377
FL	11	7	6	(NA)	(NA)	(NA)	11	8	6	26	15	15
IL	30	20	20	795	371	467	1	1	1	4	3	1
IN	5	3	3	134	60	73	(Z)	(Z)	(Z)	1	1	1
KS	75	58	59	1,939	1,058	1,359	528	601	574	671	867	893
KY	8	5	5	201	92	124	73	72	75	174	154	169
LA	508	154	148	5,387	2,838	3,409	5,014	5,079	5,242	13,355	9,256	9,587
MI	27	22	20	726	396	458	132	156	140	475	492	420
MS	31	31	30	796	526	630	144	103	95	456	202	167
MT	30	21	20	734	356	429	52	51	50	125	79	90
NE	7	6	5	163	102	119	2	1	1	6	2	2
NM	79	66	66	2,028	1,182	1,472	905	855	965	2,370	1,337	1,629
NY	1	1	(Z)	25	8	9	32	20	25	106	45	55
ND	51	39	39	1,307	662	849	73	51	52	138	91	93
OH	15	9	8	361	164	196	182	160	155	560	408	393
OK	163	124	117	4,256	2,253	2,690	1,936	2,550	2,258	4,930	2,237	3,548
PA	5	2	2	114	44	54	150	192	178	474	460	417
TX	889	686	674	23	12,219	15,060	6,053	6,241	6,343	14,097	9,571	9,939
UT	41	25	23	773	464	524	83	120	146	293	190	249
WV	4	2	2	86	36	43	145	177	178	558	551	568
WY	129	107	103	3,061	1,784	2,169	417	666	736	1,252	823	856

NA Not available. Z Less than 500 million cubic feet or less than \$500,000. ¹ Excludes nonhydrocarbon gases.

² Includes other States not shown separately. State production does not include State offshore production.

Source: U.S. Energy Information Administration, *Energy Data Reports*, *Petroleum Supply Annual*, *Natural Gas Annual*, and *Natural Gas Monthly*.

**No. 1186. Natural Gas—Supply, Consumption, Reserves, and Marketed Production:
1970 to 1990**

[See also *Historical Statistics, Colonial Times to 1970*, series M 147-161]

ITEM	Unit	1970	1973	1975	1980	1984	1985	1986	1987	1988	1989	1990	
Producing wells (yearend)		1,000 . . .	117	124	130	182	234	243	242	249	257	262	270
Production value at wells	Bil. dol.	3.7	5.0	8.9	32.1	45.3	43.2	32.6	29.0	30.3	30.6	31.7	
Avg. per 1,000 cu. ft.	Dollars	0.17	0.22	0.44	1.59	2.66	2.51	1.94	1.67	1.69	1.69	1.72	
Proved reserves ¹	Tril. cu. ft.	291	250	228	199	198	193	192	187	168	167	169	
Marketed production ²	Tril. cu. ft.	21.9	22.7	20.1	20.2	18.3	17.3	16.9	17.4	17.9	18.1	18.6	
Drawn from storage	Tril. cu. ft.	1.5	1.5	1.8	2.0	2.1	2.4	1.8	1.9	2.3	2.9	2.0	
Imports ³	Tril. cu. ft.	0.8	1.0	1.0	1.0	0.8	1.0	0.8	1.0	1.3	1.4	1.5	
Consumption, total	Tril. cu. ft.	21.1	22.1	19.5	19.9	18.0	17.3	16.2	17.2	18.0	18.8	18.7	
Residential	Tril. cu. ft.	4.8	4.9	4.9	4.8	4.6	4.4	4.3	4.3	4.6	4.8	4.4	
Commercial ⁴	Tril. cu. ft.	2.4	2.6	2.5	2.6	2.5	2.4	2.3	2.4	2.7	2.7	2.7	
Industrial	Tril. cu. ft.	9.3	10.2	8.4	8.2	7.2	6.9	6.5	7.1	7.5	7.9	8.5	
Lease and plant fuel	Tril. cu. ft.	1.4	1.5	1.4	1.0	1.1	1.0	0.9	1.2	1.1	1.1	1.2	
Other industrial	Tril. cu. ft.	7.9	8.7	7.0	7.2	6.2	5.9	5.6	6.0	6.4	6.8	7.0	
Electric utilities	Tril. cu. ft.	3.8	3.7	3.2	3.7	3.1	3.0	2.8	2.8	2.6	2.8	2.8	
Transportation ⁵	Tril. cu. ft.	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.7	
Extraction losses ⁶	Tril. cu. ft.	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Exports	Tril. cu. ft.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Additions to storage ⁷	Tril. cu. ft.	1.9	2.0	2.1	2.0	2.3	2.2	2.0	1.9	2.2	2.5	2.5	
Unaccounted for gas ⁸	Tril. cu. ft.	0.2	0.2	0.2	0.6	0.1	0.4	0.4	0.4	0.3	0.2	0.2	
World production (dry)	Tril. cu. ft.	(NA)	43.2	44.1	53.1	59.7	62.0	63.3	66.2	69.8	71.9	(NA)	
U.S. production (dry)	Tril. cu. ft.	21.0	21.7	19.2	19.4	17.4	16.4	16.0	16.5	17.0	17.3	17.6	
Percent U.S. of world	Percent	56.0	50.4	43.6	36.5	29.2	26.4	25.3	25.0	24.4	24.0	(NA)	

NA Not available. ¹ Estimated, end of year. Source: 1970-1975; American Gas Association, Arlington, VA (copyright); thereafter, U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, annual.

² Marketed production includes gross withdrawals from reservoirs less quantities used for reservoir repressuring and quantities vented or flared. For 1980 and thereafter, it excludes the nonhydrocarbon gases subsequently removed. ³ Includes imports of liquefied natural gas. ⁴ Includes deliveries to municipalities and public authorities for institutional heating and other purposes.

⁵ Pipeline fuel. ⁶ Volumetric reduction in natural gas resulting from the extraction of natural gas constituents at natural gas processing plants. ⁷ Beginning with 1980, includes liquefied natural gas (LNG) storage in above ground tanks. ⁸ Derived by subtracting the sum of additions to storage, exports and consumption from total supply.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review, International Energy Annual, Natural Gas Annual*, Volume I and II and *Monthly Energy Review*, August 1991.

No. 1187. Liquefied Petroleum Gases—Summary: 1980 to 1990

[In millions of 42-gallon barrels. Includes ethane]

ITEM	1980	1985	1989	1990	ITEM	1980	1985	1989	1990
Production	561	622	654	638	Consumption	538	584	609	568
At natural gas plants	441	479	452	456	Ethane ¹	164	210	170	186
At refineries	121	143	202	182	Propane i ₂ ³	298	322	361	335
Imports	79	68	66	68	Butane (incl. isobutane) ²	76	52	69	47
Refinery input	85	111	115	107	Stocks, Dec. 31	116	74	80	98
Exports	9	23	13	14	Tc				

¹ Reported consumption of ethane-propane mixtures have been allocated 70 percent ethane and 30 percent propane.

² Reported consumption of butane-propane mixtures have been allocated 60 percent butane and 40 percent propane.

Source: U.S. Energy Information Administration, *Petroleum Supply Annual*.

No. 1188. World Coal Trade: 1975 to 1989

[In millions of short tons]

COUNTRIES	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Exporting countries, total ¹	212.5	277.2	288.4	282.0	284.5	332.9	370.2	376.3	383.0	415.0	423.5
United States	66.3	88.7	106.5	106.5	78.2	82.0	93.2	85.5	79.6	94.9	100.8
Australia	33.5	46.6	54.3	48.8	62.3	82.2	96.6	101.3	111.9	109.8	108.5
South Africa	3.0	30.7	33.3	30.5	32.7	40.9	49.8	50.1	46.9	47.4	51.6
Soviet Union	26.8	26.2	22.5	23.0	22.8	22.8	26.5	36.9	39.1	46.0	43.9
West Germany	16.2	13.8	13.1	11.2	11.5	12.4	10.5	7.9	6.9	5.5	5.9
Canada	12.9	16.1	17.9	16.6	18.6	26.8	30.3	28.6	29.5	35.0	36.1
Poland	42.4	34.6	16.6	30.6	38.7	47.2	39.7	37.9	34.2	35.5	31.8
China: Mainland	40.5	4.2	4.1	5.1	6.8	7.7	8.6	10.9	14.4	16.2	16.9
Importing countries, total ¹	212.5	277.2	288.4	292.0	284.5	332.9	370.2	376.3	383.0	415.0	423.5
Western Europe/Mediterranean	80.8	126.9	129.4	126.5	112.9	132.4	152.3	149.0	145.6	146.2	154.7
Japan	68.5	75.6	86.0	86.5	82.8	96.2	103.0	99.6	100.2	111.6	111.7
Eastern Europe	35.1	34.8	30.1	37.0	39.7	39.9	39.1	45.4	44.9	45.1	39.6
Canada	16.8	17.4	16.3	17.3	16.7	20.3	16.1	14.7	15.8	19.3	15.1

¹ Includes areas not shown separately. ² Includes trade with Japan only.

Source: U.S. Energy Information Administration, 1975-84, *Outlook for U.S. Coal Imports*; thereafter, *Annual Prospects for World Coal Trade*.

No. 1189. Coal and Coke—Summary: 1970 to 1990

[Includes coal consumed at mines. Demonstrated coal reserve base for United States on Jan. 1, 1989, was an estimated 473 billion tons. Recoverability varies between 40 and 90 percent for individual deposits; 50 percent or more of overall U.S. coal reserve base is believed to be recoverable. See also *Historical Statistics, Colonial Times to 1970*, series M 93-126]

ITEM	Unit	1970	1975	1980	1985	1987	1988	1989	1990 ¹
Coal production, total²	Mil. sh. tons.	613	655	830	884	919	950	981	1,036
Value	Mil. dol.	3,882	12,670	20,453	22,277	21,101	20,890	21,330	(NA)
Anthracite production	Mil. sh. tons.	9.7	6.2	6.1	4.7	3.6	3.6	3.3	3.1
Bituminous coal and lignite:³									
Number of mines	Number	5,601	6,168	5,598	4,547	3,894	3,462	3,511	(NA)
Production	Mil. sh. tons.	603	648	824	879	915	947	977	1,033
Value, total	Mil. dol.	3,774	12,469	20,196	22,061	21,050	20,828	21,268	22,720
Average per ton	Dollars	6.26	19.23	24.52	25.10	23.00	22.00	21.76	22.00
Exports	Mil. sh. tons.	71	66	90	91	78	94	100	105
Value	Mil. dol.	961	3,259	4,627	4,403	3,954	3,975	4,255	4,481
Imports	1,000 sh. trns.	36	940	1,194	1,952	1,747	2,134	2,851	2,689
Method of mining:									
Underground	Mil. sh. tons.	339	293	337	350	372	382	393	416
Surface	Mil. sh. tons.	264	356	487	529	543	565	584	617
Percent of total prod.	Percent	43.8	54.8	59.1	60.2	59.4	59.7	59.8	59.7
Value	Mil. dol.	(Z)	22	30	70	(NA)	(NA)	(NA)	(NA)
Consumption ⁴	Mil. sh. tons.	515	558	699	815	834	881	888	890
Electric power utilities	Mil. sh. tons.	318	404	568	693	717	757	766	770
Industrial	Mil. sh. tons.	184	146	126	116	112	118	117	114
Productivity average: ⁵									
Daily employment	1,000	140	190	225	169	143	135	131	(NA)
Days worked	Number	228	232	210	204	207	211	214	(NA)
Tons per worker:									
Per day	Sh./tons.	18.84	14.74	16.32	23.13	28.19	30.30	31.75	(NA)
Per year	Sh./tons.	4,296	3,420	3,427	4,719	5,835	6,393	6,795	(NA)
Production, by State:									
Alabama	Mil. sh. tons.	20.6	22.6	26.4	27.8	25.5	26.5	28.0	28.7
Illinois	Mil. sh. tons.	65.1	59.5	62.5	59.2	59.2	58.6	59.3	60.2
Indiana	Mil. sh. tons.	22.3	25.1	30.9	33.3	34.2	31.3	33.6	36.3
Kentucky	Mil. sh. tons.	125.3	143.6	150.1	152.3	163.7	157.9	167.4	173.6
Montana	Mil. sh. tons.	3.4	22.1	29.9	33.3	34.4	38.8	37.7	37.8
Ohio	Mil. sh. tons.	55.4	46.8	39.4	35.6	35.6	34.0	33.7	34.9
Pennsylvania	Mil. sh. tons.	90.2	90.3	93.1	71.4	66.4	67.1	70.6	70.5
Virginia	Mil. sh. tons.	35.0	35.5	41.0	40.9	44.2	45.9	43.0	48.5
West Virginia	Mil. sh. tons.	144.1	109.3	121.6	127.8	135.9	145.0	153.6	168.2
Wyoming	Mil. sh. tons.	7.2	23.8	94.9	140.7	146.8	164.0	171.6	184.7
Other States	Mil. sh. tons.	44.1	75.9	139.7	161.3	165.8	177.6	182.3	185.5
World production	Mil. sh. tons.	3,295	3,665	4,173	4,844	5,070	5,166	5,154	(NA)
Coke production⁶	Mil. sh. tons.	66.5	57.2	46.1	28.7	28.0	32.4	33.0	28.9
Oven coke ⁷	Mil. sh. tons.	65.7	56.5	46.1	28.7	28.0	32.4	33.0	28.9
Value of product at plant	Mil. dol.	2,193	5,261	6,029	(NA)	(NA)	(NA)	(NA)	(NA)
Coke and breeze	Mil. dol.	1,899	4,607	4,784	(NA)	(NA)	(NA)	(NA)	(NA)
Avg. market value per ton	Dollars	28	84	103	103	(NA)	(NA)	(NA)	(NA)
Coal carbonized	Mil. sh. tons.	96.5	83.6	66.7	41.1	37.0	41.9	41.4	39.8
Average value per ton	Dollars	12.47	44.21	56.26	54.30	46.55	47.70	47.50	47.79
Yield of coke from coal	Percent	69.1	68.4	69.2	69.8	75.9	77.3	79.8	72.7

NA Not available. Z Less than \$500,000. ¹ Preliminary. ² Includes bituminous coal, lignite, and anthracite. ³ All domestic product data for 1970 and 1975 are for mines producing 1,000 short tons or more per year; thereafter, data are for all mines. ⁴ Includes some categories not shown separately. ⁵ Data for 1970 and 1975 are for mines producing 1,000 short tons or more per year; thereafter, for mines producing 10,000 short tons or more. Beginning 1984, includes anthracite. ⁶ Includes beehive coke. ⁷ Prior to 1980, excludes screenings or breeze; thereafter, includes beehive and other nonrecoverables.

Source: 1970 and 1975, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Coal Production*, annual; *Annual Energy Review*, and *Quarterly Coal Report*.

No. 1190. Uranium Concentrate (U_3O_8) Industry—Summary: 1980 to 1990

[Middle demand case. See table 981. See also *Historical Statistics, Colonial Times to 1970*, series M 266-267]

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
Production	1,000 sh. tons.	21.9	13.4	10.6	7.4	5.6	6.8	6.5	6.5	6.9	4.4
Net imports (U_3O_8)	1,000 sh. tons.	-1.1	6.3	2.4	5.2	3.2	6.0	6.9	6.2	5.5	(NA)
Utility and Suppliers inventories (U_3O_8 equivalent)	1,000 sh. tons.	54.4	68.6	80.0	74.7	168.3	166.2	164.5	159.1	154.9	66.0
Price (1988 dol./lb. U_3O_8):											
Long-term contract price	Dollars	41.4	30.2	31.7	26.4	24.7	19.3	18.5	(NA)	(NA)	(NA)
Spot market price	Dollars	45.0	24.3	26.8	19.4	17.0	18.1	17.3	14.5	14.2	(NA)
Delivered price	Dollars	39.9	48.5	44.6	238.5	233.6	231.9	219.6	225.7	227.8	(NA)
Capital expenditures (1988 dollars)	Mil. dol.	1,107	202	78	43	37	29	63	36	35	(NA)
Employment	1,000	19.9	9.0	5.6	3.6	2.4	2.1	2.0	2.1	1.6	1.3

NA Not available. ¹ Includes natural U_3O_8 (uranium oxide), natural UF_6 (uranium hexafluoride), natural UF_6 under usage agreement, UF_6 at enrichment suppliers, enriched UF_6 and fabricated fuel. ² Average U.S. contract prices and market price settlements.

Source: U.S. Department of Energy, *Domestic Uranium Mining and Milling Industry*, annual, and *Uranium Industry*, annual.

No. 1191. Cobalt—Summary: 1980 to 1990

[In millions of pounds of contained cobalt, except price]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
Production: Secondary (scrap) ¹	1.2	0.9	0.7	0.9	0.9	2.6	2.3	2.2	2.6	2.7
Imports ²	16.3	12.9	17.2	25.3	17.7	12.3	19.5	15.5	12.8	14.4
Zaire	6.2	5.0	7.7	11.8	4.8	0.7	9.4	5.4	2.4	4.0
Zambia	2.2	1.2	2.3	3.8	4.3	3.5	2.9	2.7	3.1	3.6
Canada	1.1	1.5	2.0	3.1	3.1	3.4	3.4	3.6	2.7	2.9
Exports	0.6	0.6	0.8	0.7	0.6	1.0	0.8	1.2	2.0	3.0
Consumption (reported)	15.3	9.5	11.3	12.9	12.4	14.3	14.7	16.0	15.6	16.5
Inventories	45.0	48.2	48.8	49.3	56.0	56.1	57.6	57.0	56.3	56.9
Government ⁴	40.8	45.7	46.0	46.2	53.2	53.1	53.1	53.1	53.1	52.8
Private ⁵	4.2	2.5	2.8	3.1	2.8	3.0	4.5	3.9	3.2	4.1
Price per pound ⁷ (dollars)	25.00	8.56	5.76	10.40	11.43	7.49	6.56	7.09	7.64	10.09

¹ Reported consumption. ² Includes countries not shown separately. ³ 1980 to 1988—estimated content of unwrought cobalt and waste and scrap. 1989 also includes oxides, acetates and chlorides. ⁴ Includes cobalt sold but not delivered.

⁵ Inventory following upgrading program. Class 1 cobalt only. ⁶ Stocks held by consumers and chemical processors. ⁷ 1980 price is producer price, thereafter; prices are weighted average based on the market price quoted by *Metals Week*.

No. 1192. Tin—Summary: 1980 to 1990

[In metric tons, except price.]

ITEM	1980	1983	1984	1985	1986	1987	1988	1989	1990
Production: Domestic smelters	3,000	2,500	4,000	3,000	3,213	3,905	1,467	1,000	-
Secondary sources	18,638	14,205	15,417	14,109	14,850	16,159	15,249	15,213	13,200
Imports for consumption:									
Metal	45,982	34,048	41,224	33,830	35,768	41,150	43,493	33,988	33,810
Ore (tin content)	840	968	3,272	1,616	3,936	2,953	2,837	216	-
Exports	595	1,340	1,429	1,478	1,547	1,318	1,209	904	658
Price of Straits tin at NY, dol. per lb. ¹	8.46	6.55	6.24	5.96	23.83	4.19	4.41	5.20	3.86
Consumption, primary and secondary	56,362	45,547	48,315	48,669	43,524	44,219	45,601	46,456	44,363
World mine production, est.	247,300	196,942	188,183	180,725	172,471	178,131	200,150	216,457	222,000

- Represents zero. ¹ See footnote 5, table 1173. ² Average of monthly prices quoted for 10 months only.

No. 1193. Tungsten Concentrate—Summary: 1970 to 1990

[Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 225-226, for related data]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989	1990
Production:	1,000 sh.										
Concentrates (60% WO ₃ basis)	ton	10.1	6.4	2.3	2.8	2.3	1.8	0.1	(D)	(D)	(D)
Tungsten content	Mil. lb.	9.6	6.0	2.2	2.7	2.2	1.7	0.1	(D)	(D)	(D)
Shipments from mines:											
Reported value f.o.b. mines	Mil. dol.	23.8	50.6	10.5	13.4	9.1	5.8	0.2	(D)	(D)	(D)
Avg. value per lb. of tungsten	Dollars	2.55	8.38	4.70	5.18	4.22	3.21	2.88	(D)	(D)	(D)
Imports for consumption ²	Mil. lb.	3.13	11.4	6.3	12.8	10.5	5.6	9.7	17.7	17.4	14.2
Consumption ²	Mil. lb.	16.7	20.4	11.4	18.9	15.1	10.6	12.1	17.3	17.0	13.0
Stocks, ² end of year	Mil. lb.	2.3	1.4	2.5	2.2	2.5	1.1	0.7	1.1	2.8	2.4
World production ²	Mil. lb.	71.4	114.6	90.2	101.8	102.7	95.9	93.6	93.0	92.8	89.0

D Withheld to avoid disclosure. ¹ A short ton of 60% tungsten trioxide (WO₃) contains 951.72 pounds of tungsten. Estimated. ² Tungsten content. ³ General imports.

Source of tables 1191-1193: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1194. Zinc—Summary: 1980 to 1990

[Production in thousands of metric tons, except value. Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 249-250, for production in short tons]

ITEM AND STATE	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
Smelter production, primary slab zinc	340	228	236	253	261	253	261	241	260	263
Value (mil. dol.)	280	194	215	271	232	212	241	320	476	(NA)
From domestic ores	232	193	210	198	198	191	205	196	165	158
From foreign ores	108	35	26	55	63	62	56	45	95	105
Production, redistilled secondary slab zinc	29	74	69	78	73	63	83	88	98	96
Avg. price of common zinc (cents per lb.)	37.4	38.5	41.4	48.6	40.4	38.0	41.9	60.2	82.1	(NA)
World smelter production, est.	6,049	5,894	6,249	6,527	6,798	6,693	7,038	7,113	7,203	7,041
World smelter and refining capacity	7,650	(NA)	7,200	7,800	7,900	7,900	7,900	7,950	7,992	8,236
Mine production, recoverable zinc	317	303	275	253	227	203	216	244	276	515
Colorado	14	(D)								
Idaho	28	(D)								
Missouri	63	64	57	45	49	38	35	41	51	49
New York	34	52	57	(D)						
Tennessee	112	121	110	117	104	102	116	120	(D)	(D)
Other States	66	66	51	91	74	63	65	83	225	466

D Withheld to avoid disclosure of individual company data. NA Not available. ¹ Smelter capacity only.Source: U.S. Bureau of Mines, *Minerals Yearbook*, and *Mineral Facts and Problems*.

No. 1195. Bauxite—Summary: 1980 to 1990

[See *Historical Statistics, Colonial Times to 1970*, series M 256-257, for bauxite in short ton]

ITEM	Unit	1980	1985	1986	1987	1988	1989	1990 ¹
Production:								
Crude ore	Mil. metric ton	1.9	0.8	0.6	0.7	0.7	(D)	(D)
Dried bauxite	Mil. metric ton	1.6	0.7	0.5	0.6	0.7	(D)	(D)
Value	Mil. dol.	22.4	12.9	10.4	10.9	10.6	(D)	(D)
Imports ² (crude, dried)	Mil. metric ton	14.1	7.2	6.5	9.2	10.0	10.7	(NA)
Jamaica	Mil. metric ton	6.1	1.5	2.1	2.8	2.7	3.3	(NA)
Guinea	Mil. metric ton	4.1	3.8	3.4	4.3	4.5	3.4	(NA)
Suriname	Mil. metric ton	1.4	12.0	0.1	0.1	-	-	(NA)
Value	Mil. dol.	380.5	210.1	188.8	229.2	250.9	304.5	343.9
Exports (as shipped)	1,000 metric ton	21.0	56.0	69.0	201.0	63	44	(NA)
Consumption (dry equivalent)	Mil. metric ton	16.0	8.2	6.9	9.5	10.1	11.8	(NA)
World production, est	Mil. metric ton	89.2	84.5	86.1	90.3	97.9	105.0	(NA)

- Represents or rounds to zero. D Withheld to avoid disclosure. NA Not available. ¹ Preliminary. ² Includes countries not shown separately.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1196. Platinum-Group Metals—Summary: 1980 to 1990

[1980-87: In thousands of troy ounces; thereafter, in kilograms; except as indicated. The platinum group is comprised of six closely related metals. The metals commonly occur together in nature and are among the rarest of the metallic elements. The metals are refractory and chemically inert toward a wide variety of materials even at high temperatures; are used as catalysts in the chemical, petroleum refining, and automotive industries, and as corrosion-resistant materials in the chemical, electrical, glass, and dental-medical industries.]

ITEM	1980	1984	1985	1986	1987	1988 ¹	1989 ¹	1990 ¹
World mine production, total ²	6,848	7,653	7,941	8,365	8,796	281,853	283,158	286,704
United States	3	15	(D)	(D)	100	4,970	6,280	7,740
Soviet Union	3,250	3,700	3,800	3,900	4,000	127,500	127,500	125,000
South Africa	3,100	3,500	3,700	3,961	4,221	133,300	135,800	137,500
Refinery production, total domestic	1,413	1,521	1,304	1,513	1,615	51,488	50,525	52,311
Primary refined	3	24	7	4	6	297	339	64
Secondary refined	1,410	1,497	1,297	1,509	1,609	51,191	50,186	52,247
Imports	3,502	4,474	3,990	4,477	3,807	124,324	113,278	125,354
Value (mil. dol.)	1,177	1,118	1,026	1,347	1,240	1,348	1,382	1,906
Exports	765	1,162	889	751	708	26,787	38,301	55,044
Value (mil. dol.)	341	275	187	202	225	310	399	416
Consumption	2,206	2,200	2,271	2,080	1,938	70,998	78,483	77,487
Industry stocks, Jan. 1	761	943	1,319	1,129	1,292	35,515	32,543	30,324
Producer price per troy ounce (dol.):								
Platinum	439	475	475	519	600	600	600	600
Palladium	214	147	127	131	150	150	150	150
Rhodium	766	625	915	1,196	1,239	1,275	1,275	1,275
Iridium	505	600	600	600	532	420	(NA)	(NA)

D Withheld to avoid disclosing company proprietary data. NA Not available. ¹ Data reported in kilograms. ² Includes countries not shown separately. ³ Reported sales to industry.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1197. Titanium—Summary: 1980 to 1990

[In 1,000 metric tons, except as indicated. In 1985, approximately 63 percent of the titanium metal was used in jet engines, airframes, and space and mis approximately 20 percent was used in the chemical processing industry, power generation, and in marine and ordnance applications; and 17 percent in steel and other alloys]

ITEM	1980	1983	1984	1985	1986	1987	1988	1989	1990
Ilmenite concentrate:									
Mine shipments	539	(D)							
Value (mil. dol.)	32.0	(D)							
Imports	324	235	372	460	423	308	394	412	(NA)
Value (mil. dol.)	6.7	9.3	11.1	14.6	16.8	12.0	19.5	25.5	(NA)
Consumption	770	663	711	686	731	744	679	660	689
Titanium dioxide pigments:									
Production	660	669	758	784	844	879	927	1,007	979
Imports for consumption	89	159	176	178	184	174	185	166	148
Apparent consumption	684	774	831	883	908	966	992	947	925
Price, Dec. 31:									
Anatase (cents per lb.)	57	69	69	72	77	77	95	102	99
Rutile (cents per lb.)	64	75	75	78	82	82	97	105	101
World production:									
Ilmenite concentrate	3,725	1,2674	1,3476	1,3457	1,3420	1,3937	1,4035	1,4236	1,4051
Titanium slag	1,192	1,052	1,143	1,280	1,285	1,575	1,725	1,765	1,485
Rutile concentrate, natural	436	315	341	373	394	439	434	476	452

D Withheld to avoid disclosing company proprietary data. NA Not available. ¹ Preliminary. ² Excludes U.S. production data to avoid disclosing company proprietary data.

Source of tables 1195-1197: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1198. Chromite—Summary: 1980 to 1990

[In thousands of metric tons, except as indicated]

ITEM	1980	1983	1984	1985	1986	1987	1988	1989	1990
Imports for consumption ¹	891	172	277	376	443	490	615	525	306
Value (mil. dol.)	57	10	15	20	22	24	42	44	22
South Africa	367	131	214	273	309	251	367	368	260
Exports	5	10	50	91	84	1	4	40	6
Re-exports	40	5	4	3	1	5	1	2	4
Consumption, total	886	290	465	508	388	506	551	561	402
Metallurgical industry	741	225	376	449	342	459	495	517	359
Refractory industry	145	65	88	56	45	48	56	44	44
Stocks, Dec. 31 (consumer)	613	413	297	272	285	332	390	392	355
World production ¹	8,902	8,210	9,776	10,935	11,797	11,637	12,593	13,542	12,846
South Africa	3,414	2,466	3,407	3,699	3,907	3,789	4,245	4,951	4,498

¹ Includes countries not shown separately.Source: U.S. Bureau of Mines, *Minerals Yearbook*.**No. 1199. Diamond Industrial—Summary: 1985 to 1991**

[In million carats, unless noted]

ITEM	1985	1986	1987	1988	1989	1990	1991
Bort, grit, and powder and dust, natural and synthetic:							
Production: Manufactured diamond	76.0	80.0	(D)	(D)	90.0	90.0	90.0
Secondary (est.)	1.0	3.1	3.0	6.6	3.0	5.9	3.2
Imports for consumption	36.4	37.1	45.0	64.3	61.6	85.4	70.6
Exports and re-exports ¹	51.6	51.2	56.8	74.5	78.2	71.0	83.2
Sales of Govt. stockpile excesses						3.0	3.3
Consumption, apparent	61.2	68.4	(D)	(D)	75.8	112.7	83.3
Price, value of imports, dollars per carat	1.27	1.25	1.28	1.03	0.72	0.76	0.81

- Represents or rounds to zero. D Withheld to avoid disclosing company proprietary data. ¹ Includes diamonds in manufactured abrasive products.

No. 1200. Manganese Compounds—Summary: 1985 to 1991

[In thousand short tons of manganese content, unless noted]

ITEM	1985	1986	1987	1988	1989	1990	1991
Salient Statistics—United States: ¹							
Imports for consumption:							
Manganese ore	387	463	341	512	639	338	290
Ferromanganese	367	396	368	531	476	419	335
Exports:							
Manganese ore	56	42	63	68	57	77	30
Ferromanganese	7	4	3	3	9	8	10
Shipments from Govt. stockpile excesses: ²							
Manganese ore	191	150	228	78	78	146	160
Ferromanganese	-	-81	-	-52	-55	-56	-74
Consumption, reported: ³							
Manganese ore	545	500	533	554	616	548	510
Ferromanganese	466	376	409	468	440	455	380
Consumption, apparent, manganese ⁴	698	730	699	752	797	695	660
Price, ⁵ average value, 46%-48% Mn metallurgical ore, dollars per lb. cont. Mn, c.i.f. U.S. ports	1.43	1.34	1.27	1.75	2.76	3.78	3.70
Stocks, producer and consumer, yearend:							
Manganese ore	589	455	456	458	518	418	355
Ferromanganese	100	93	48	91	75	62	50
Net import reliance ⁶ as a percent of apparent consumption	100	100	100	100	100	100	100

- Represents or rounds to zero. ¹ Manganese content typically ranges from 35% to 54% for manganese ore and from 74% to 95% for ferromanganese. ² Net quantity including effect of stockpile upgrading program. ³ Total manganese consumption cannot be approximated from consumption of manganese ore and ferromanganese because of the use of ore in making manganese ferroalloys and metal. ⁴ Thousand short tons, manganese content. Based on estimates of average content for all significant components except imports for which content is reported. ⁵ Thousand short tons, manganese content. ⁶ Defined as imports - exports + adjustments for Government and industry stock changes.

Source of tables 1199 and 1200: U.S. Bureau of Mines, *Mineral Commodity Summaries*, annual.

Construction and Housing

This section presents data on the construction industry and on various indicators of its activity and costs; on housing units and their characteristics and occupants; and on the characteristics and vacancy rates for commercial buildings. Considerable data from the 1990 census are featured in tables 1223 to 1229.

The principal source of these data is the U.S. Bureau of the Census, which issues a variety of current publications. Construction statistics compiled by the Bureau appear in its monthly *Current Construction Reports* series with various quarterly or annual supplements; *Housing Starts* and *Housing Completions* present data by type of structure and by 4 major census regions; *New One-Family Houses Sold and For Sale* also provides statistics annually on physical and financial characteristics for all new housing by the 4 major census regions; *Price Index of New One-Family Houses Sold* presents quarterly figures and annual regional data; and *Housing Units Authorized by Building Permits* covers approximately 17,000 permit-issuing jurisdictions in the United States. Statistics on expenditures by owners of residential properties are issued quarterly and annually in *Expenditures for Residential Upkeep and Improvements*. *Value of New Construction Put in Place* presents data on all types of construction and includes monthly composite cost indexes. Reports of the censuses of construction industries (see below) are also issued on various topics.

Other Census Bureau publications include the *Current Housing Reports* series, which comprises the quarterly *Housing Vacancies*, the quarterly *Market Absorption of Apartments*, the American Housing Survey (formerly Annual Housing Survey) and reports of the censuses of housing and of construction industries. *Construction Review*, published quarterly by the International Trade Administration, U.S. Department of Commerce, contains many of the census series and other construction statistics series from the Federal Government and private agencies.

Other sources include the monthly *Dodge Construction Potentials* of F. W. Dodge Division, McGraw-Hill Information

In Brief

Housing units,	
1990	102 mill.
Median home value,	
1990	\$79,100
Value of new construction,	
1991	\$405 bil.
New homes sold,	
1991	504,000
Private housing starts,	
1991	1,014,000

Systems Company, New York, NY, which presents State data on construction contracts; the National Association of Home Builders with State-level data on housing starts; the NATIONAL ASSOCIATION OF REALTORS, which presents data on existing home sales; and the Society of Industrial and Office Realtors and Oncor International on commercial office space; and the Bureau of Economic Analysis, which presents data on residential capital and gross housing product; and the U.S. Energy Administration, which provides data on commercial buildings through its periodic sample surveys.

Censuses and surveys.—Censuses of the construction industry were first conducted by the Bureau of the Census for 1929, 1935, and 1939; beginning in 1967, a census has been taken every five years (for years ending in "2" and "7"). The latest reports are for 1987.

The 1987 Census of Construction Industries, in accordance with the 1987 *Standard Industrial Classification Manual* (see text, section 13), covers all employer establishments primarily engaged in (1) building construction by general contractors or operative builders; (2) heavy (non-building) construction by general contractors; and (3) construction by special trade contractors.

From 1850 through 1930, the Bureau of the Census collected some housing data as part of its censuses of population and agriculture. Beginning in 1940, separate censuses of housing have been taken at 10-year intervals. For the 1970 and 1980

censuses, data on year-round housing units were collected and issued on occupancy and structural characteristics, plumbing facilities, value, and rent.

Evaluation studies of the 1950, 1960, 1970, and 1980 censuses estimated the underenumeration of occupied housing units at 2.9 percent, 2.4 percent, 1.7 percent, and 1.5 percent respectively. The missed rate in 1980 for all housing units was 2.6 percent or approximately 2.3 million units, 1 million of which were vacant housing units. The rate for 1990 is not available at this time.

The American Housing Survey (*Current Housing Reports* series H-150 and H-170), which began in 1973, provided an annual and ongoing series of data on selected housing and demographic characteristics until 1983. In 1984 the name of the survey was changed from the Annual Housing Survey. It is currently based on a biennial national sample and on 11 annual MSA samples. All samples represent a cross section of the housing stock in their respective areas. Estimates are subject to both sampling and non-sampling errors; caution should therefore, be used in making comparisons with 1970 and 1980 census data.

Data on residential mortgages were collected continuously from 1890 to 1970, except 1930, as part of the decennial census by the Bureau of the Census. Since 1973, mortgage status data, which are limited to single family homes on less than ten acres with no business on the property, have been presented in the American Housing Survey.

Housing units.—In general, a housing unit is a group of rooms or a single room occupied or intended for occupancy as separate living quarters; that is, the occupants do not live and eat with any other persons in the structure and there is direct access from the outside or through a common hall. Transient accommodations, barracks for workers, and institutional-type quarters are not counted as housing units.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

No. 1201. Construction Industries—Summary, by Industry: 1987

[Based on a probability sample of about 160,000 construction establishments with payroll in 1987; see Appendix III.
N.e.c. = Not elsewhere classified]

SIC ¹ code	INDUSTRY	Estab- lish- ments with payroll (1,000)	EMPLOYEES (1,000)		PAYROLL (mil. dol.)		VALUE OF CONSTRU- CTION WORK (mil. dol.)		Value added ³ (mil. dol.)
			Total	Con- struction workers	Total	Con- struction workers	Total	Net ²	
(X)	All industries, total	544.2	5,054	3,989	111,067	79,742	499,982	367,746	230,174
15	Contract construction	536.3	5,015	3,979	110,200	79,589	495,346	365,241	227,934
1521	General building contractors	157.6	1,278	926	27,970	17,204	212,629	111,019	65,514
1522	Single-family houses	90.4	396	307	6,272	4,343	39,098	27,319	14,970
1531	Other residential buildings	8.1	82	61	1,752	1,130	13,316	6,257	3,659
1541	Operative builders	20.8	169	80	4,385	1,478	48,960	26,837	15,173
1542	Industrial buildings and warehouses	7.0	143	111	3,619	2,497	21,462	11,095	6,882
16	Nonresidential buildings, n.e.c.	31.3	488	367	11,843	7,756	88,793	39,510	24,831
1611	Heavy construction contractors	36.6	827	683	20,408	15,461	82,285	68,435	44,940
1622	Highway and street construction	11.0	284	239	7,041	5,397	34,161	27,984	17,120
1623	Bridge, tunnel, and elevated highway	1.2	47	40	1,192	910	5,481	4,187	2,430
1629	Water, sewer, and utility lines	10.0	198	166	4,513	3,428	17,010	15,055	10,090
17	Heavy construction, n.e.c.	14.5	298	238	7,662	5,726	25,633	21,209	15,301
1711	Special trade contractors	342.0	2,909	2,370	61,921	46,923	200,434	185,786	117,480
1721	Plumbing, heating, air-conditioning	69.6	617	471	14,330	10,311	49,503	44,518	25,912
1731	Painting and paperhanging	29.9	170	145	2,979	2,386	7,952	7,446	5,716
1741	Electrical work	49.4	509	406	12,664	9,622	35,838	34,658	21,817
1742	Masonry and other stonework	23.3	189	150	2,947	2,462	8,714	8,269	5,476
1743	Plastering, drywall, insulation	17.8	254	217	5,485	4,348	16,427	15,137	9,748
1751	Terrazzo, tile, marble, and mosaic work	5.1	34	28	734	554	2,272	2,182	1,318
1752	Carpentry	36.0	190	164	3,272	2,610	11,244	10,039	6,078
1761	Floorlaying and other floor work	8.2	45	35	906	645	3,651	3,371	1,880
1771	Roofing, siding, and sheet metal work	25.7	231	187	4,314	3,111	15,028	14,183	8,524
1781	Concrete work	23.4	218	187	4,175	3,278	15,056	13,854	8,443
1791	Water well drilling	3.4	18	14	335	249	1,330	1,299	780
1792	Structural steel erection	4.0	65	55	1,594	1,232	4,863	4,510	3,253
1793	Glass and glazing work	4.6	41	29	919	607	3,222	3,142	1,701
1794	Excavation work	13.4	95	79	2,060	1,598	8,244	7,491	5,708
1795	Wrecking and demolition work	1.2	14	12	261	195	912	845	782
1796	Installing building equipment, n.e.c.	3.8	62	50	1,858	1,447	5,380	5,010	3,723
1799	Special trade contractors, n.e.c.	23.2	176	142	3,089	2,269	10,814	9,833	6,622
6552	Land subdividers and developers, n.e.c.	8.0	40	9	867	153	4,636	2,505	2,240

X Not applicable. ¹ Standard Industrial Classification; see, text, section 13. ² Value of construction work less payments for construction work subcontracted to others, not shown separately. ³ Dollar value of business done less (a) payments for materials, components, and supplies, and (b) payments for construction work subcontracted to others, not shown separately.

Source: U.S. Bureau of the Census, *Census of Construction Industries, 1987*, series CC87-I-2B.

No. 1202. Construction Materials—Producer Price Indexes: 1970 to 1991

[1982=100, except as noted. For discussion of producer price index, see text, section 15. This index, more formally known as the special commodity grouping index for construction materials, covers materials incorporated as integral part of a building or normally installed during construction and not readily removable. Excludes consumer durables such as kitchen ranges, refrigerators, etc. This index is not the same as the stage-of-processing index of intermediate materials and components for construction. See *Historical Statistics, Colonial Times to 1970*, series N 140-155 for similar data.]

COMMODITY	1970	1975	1980	1984	1985	1986	1987	1988	1989	1990	1991
Construction materials	39.1	60.4	92.5	106.4	107.6	107.3	109.5	115.7	119.5	119.6	120.4
Interior solvent based paint	40.1	60.2	91.3	103.9	107.3	109.9	111.6	120.3	128.8	133.0	140.2
Plastic construction products	65.5	83.5	103.9	115.5	108.6	106.4	108.4	121.1	120.1	117.2	115.4
Douglas fir, dressed	40.8	79.6	132.6	123.2	126.5	124.5	125.1	135.7	151.6	138.4	139.4
Southern pine, dressed	40.1	61.3	104.0	119.1	105.2	104.9	114.1	112.4	108.1	111.2	111.0
Millwork	41.5	57.4	93.2	110.2	111.7	113.7	117.7	121.9	127.3	130.3	135.4
Softwood plywood	40.3	71.1	109.5	107.6	107.4	109.4	109.8	109.1	124.2	119.6	120.7
Hardwood plywood and related products	58.6	66.0	97.5	99.6	88.9	91.0	92.9	94.2	99.8	102.7	102.9
Softwood plywood veneer, ex. reinforced/backed	(NA)	75.2	126.0	103.3	100.1	105.9	108.4	117.3	142.1	142.3	138.5
Building paper and building board mill products	42.2	53.1	86.1	108.2	107.4	108.8	111.2	113.3	115.6	112.2	111.8
Tube, drawn, 6000 alloy series	35.6	56.5	85.6	109.7	109.7	109.8	111.2	128.9	131.0	127.1	124.1
Builders hardware	41.7	58.7	84.9	109.3	113.5	115.8	117.4	122.5	127.8	133.0	136.1
Plumbing fixtures and brass fittings	39.9	58.2	88.5	108.6	111.9	115.5	119.7	128.7	137.7	144.3	149.7
Heating equipment	46.6	63.5	87.0	106.0	109.5	113.0	115.5	119.2	125.1	131.6	134.1
Metal doors, sash, and trim	38.9	55.9	87.8	106.6	107.3	108.9	112.0	122.4	130.0	131.4	134.7
Incandescent outdoor lighting fixtures	34.4	53.0	82.7	109.2	109.2	112.0	117.2	122.4	128.0	137.3	136.2
Bright nails	31.4	66.1	90.9	99.4	100.2	99.8	101.2	104.7	110.4	(NA)	(NA)
Welded steel wire fabric for concrete reinforcing	40.6	(NA)	98.9	101.9	101.3	98.8	98.3	109.2	108.6	109.7	99.7
Elevators, escalators, and other lifts	42.3	62.0	87.3	97.1	97.7	99.2	100.4	103.6	107.1	110.1	108.8
Stamped metal outlet box	31.4	(NA)	82.7	114.9	119.7	152.0	160.1	168.7	171.7	179.4	179.7
Concrete ingredients and related products	36.3	55.6	88.4	105.1	108.5	109.4	110.4	112.0	113.2	115.3	118.5
Concrete products	37.7	57.3	92.0	103.9	107.5	109.2	109.4	110.0	111.2	113.5	115.6
Clay construction products exc. refractories	42.1	58.0	88.8	110.0	113.5	118.0	121.4	124.9	127.0	129.9	130.2
Prep. asphalt and tar roofing and siding products	28.8	61.7	105.5	97.7	100.5	96.8	91.9	94.4	95.6	97.1	98.3
Gypsum products	38.9	56.2	100.1	135.4	132.3	137.0	125.2	112.9	110.0	105.2	99.5
Insulation materials	34.6	55.0	80.7	104.0	105.2	105.7	105.0	105.8	106.7	108.4	110.9
Paving mixtures and blocks	18.1	44.0	83.7	106.1	111.6	104.9	100.8	102.7	101.0	101.2	103.2

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual.

No. 1203. Price and Cost Indexes for Construction: 1970 to 1991

[1987=100. Excludes Alaska and Hawaii. Indexes from certain of these sources are published on bases different from those shown here. See *Historical Statistics, Colonial Times to 1970*, series N 118-137, for construction cost indexes on a 1947-49 base]

NAME OF INDEX	1970	1975	1980	1984	1985	1986	1988	1989	1990	1991
Bureau of the Census:										
Composite fixed-weighted ¹	31.7	48.4	77.6	90.2	93.1	96.5	103.8	107.4	110.1	110.9
Implicit price deflator ²	32.6	50.2	79.1	91.2	93.9	96.8	104.1	108.3	110.8	111.4
Bureau of the Census houses under construction: ³										
Fixed-weighted	30.2	45.0	75.6	88.8	91.0	95.6	103.6	107.0	109.8	110.2
Price deflator	31.4	46.8	77.9	90.1	92.0	95.8	104.1	108.4	110.9	110.8
Federal Highway Administration, composite ⁴	36.8	58.1	97.2	102.0	101.1	106.6	107.7	108.5	107.5	
Bureau of Reclamation composite ⁵	34	55	81	96	98	99	103	107	111	114
Turner Construction Co.: Building construction ⁶	32	50	69	91	94	97	104	107	111	113
E. H. Boeckh, building cost index: ⁷										
Residences	(NA)	(NA)	(NA)	93.5	96.2	98.0	102.5	106.3	109.9	113.0
Apartments, hotels, and office buildings	(NA)	(NA)	(NA)	94.8	96.3	98.0	102.7	106.2	109.0	112.0
Commercial and factory buildings	(NA)	(NA)	(NA)	95.0	96.7	98.3	103.0	107.2	110.8	114.2
Engineering News-Record: ⁸										
Buildings	32.9	51.4	76.5	95.1	95.5	97.7	102.2	103.6	106.3	108.3
Construction	31.4	50.2	73.5	94.1	95.2	97.5	102.6	104.7	107.4	109.7
Handy-Whitman public utility: ⁹										
Buildings	32	57	83	94	96	98	104	107	108	105
Electric	32	55	80	97	98	99	107	111	115	116
Gas	34	54	79	100	100	97	106	111	114	116
Water ¹¹	32	54	81	94	97	98	103	106	108	108
C. A. Turner Telephone Plant ¹²	51	69	102	99	101	100	101	110	113	114

NA Not available. ¹ Weighted average of the various indexes used to deflate the Construction Put in Place series. In calculating the index, the weights (i.e., the composition of current dollar estimates in 1987, by category) are held constant.

² Derived ratio of total current to constant dollar Construction Put in Place (multiplied by 100). ³ Excludes value of site. ⁴ Based on average contract unit bid prices for composite mile (involving specific average amounts of excavation, paving, reinforcing steel, structural steel, and structural concrete). ⁵ Derived from the four quarterly indexes which are weighted averages of costs of labor, materials, and equipment for the construction of dams and reclamation projects. ⁶ Based on firm's cost experience with respect to labor rates, materials prices, competitive conditions, efficiency of plant and management, and productivity. ⁷ Average of 20 cities for types shown. Weights based on surveys of building costs. ⁸ Building index computed on the basis of a hypothetical unit of construction requiring 8 bbl. of portland cement, 1,088 M bd. ft. of 2" x 4" lumber, 2,500 lb. of structural steel, and 68.38 hours of skilled labor. Construction index based on same materials components combined with 200 hours of common labor. ¹⁰ As derived on data covering public utility construction costs in six geographic regions. Covers skilled and common labor.

¹⁰ As derived by U.S. Bureau of the Census. Covers steam generation plants only. ¹¹ As derived by U.S. Bureau of the Census. Reflects costs for structures and improvements at water pumping and treatment plants. ¹² Computed by the Census Bureau by averaging the weighted component indexes published for six geographic regions.

Source: U.S. Bureau of the Census. In U.S. Department of Commerce, International Trade Administration, *Construction Review*, bimonthly.

No. 1204. Value of New Construction Put in Place: 1964 to 1991

[In millions of dollars. Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 66-69]

YEAR	CURRENT DOLLARS				CONSTANT (1987) DOLLARS				Public	
	Total	Private		Public	Total	Private		Public		
		Total	Residential buildings	Nonresidential buildings		Total	Residential buildings	Nonresidential buildings		
1964	72,124	51,921	30,526	14,412	20,203	294,569	211,627	124,768	60,892	82,942
1970	100,727	72,819	35,863	23,008	27,908	309,244	225,168	114,138	71,796	84,077
1971	117,311	87,612	48,514	24,204	29,699	337,451	254,502	145,554	69,621	82,949
1972	133,318	103,288	60,693	26,568	30,030	360,780	281,593	170,190	71,490	79,187
1973	146,826	114,477	65,085	30,683	32,348	364,938	285,937	166,249	76,259	79,001
1974	147,476	109,344	55,967	32,195	38,132	319,382	242,274	130,126	70,029	77,089
1975	145,623	102,330	51,581	28,397	43,293	290,137	208,991	109,920	58,990	81,147
1976	165,441	121,462	68,273	27,936	43,979	315,865	235,338	136,685	55,617	80,527
1977	183,126	150,044	92,004	30,871	43,083	340,833	266,393	165,926	57,134	74,440
1978	230,178	180,032	109,838	39,135	50,146	362,862	285,880	174,695	65,343	76,982
1979	259,839	203,194	116,444	51,732	56,646	364,554	288,789	165,116	77,359	75,766
1980	259,746	196,100	100,381	58,290	63,646	328,435	252,645	128,926	78,972	75,790
1981	271,950	207,259	99,241	68,450	64,691	320,950	247,427	118,343	85,091	73,523
1982	260,594	197,531	84,876	73,953	63,064	297,759	226,510	97,595	87,505	71,249
1983	284,945	231,494	125,521	70,438	63,450	332,625	261,398	143,108	80,888	71,227
1984	348,817	278,600	153,849	87,493	70,217	382,435	306,152	170,732	96,664	76,284
1985	377,366	299,543	158,474	103,455	77,823	401,967	321,706	172,338	111,262	80,260
1986	407,693	323,100	187,148	98,674	84,593	421,367	335,709	195,377	102,596	85,658
1987	419,264	328,636	194,656	100,933	90,628	419,250	328,535	194,622	100,877	90,715
1988	432,223	337,441	198,101	106,994	94,782	415,004	324,332	190,292	103,037	90,673
1989	443,721	345,417	196,551	113,988	98,305	409,775	318,653	181,321	105,711	91,122
1990	446,434	337,777	182,856	117,971	108,657	402,770	304,057	164,887	106,369	98,714
1991	404,892	295,736	160,961	96,763	109,156	363,204	265,345	145,162	86,934	87,859

Source: U.S. Bureau of the Census, *Current Construction Reports*, series C30, and press release, CB-91-14.

No. 1205. Value of New Construction Put in Place In Current and Constant (1987) Dollars: 1985 to 1991

(In millions of dollars. Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For details on derivation of constant values and description of revised series, see source. For description of nature of revisions and deflators used, see *Construction Reports*, series C30-9005. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 66-69)

TYPE OF CONSTRUCTION	CURRENT DOLLARS					CONSTANT (1987) DOLLARS				
	1985	1988	1989	1990	1991, prel.	1985	1988	1989	1990	1991, prel.
Total new construction .	377,386	432,223	443,721	446,434	404,892	401,967	415,004	409,775	402,770	363,204
Private construction	299,543	337,441	345,417	337,777	295,736	321,706	324,332	318,653	304,057	265,345
Residential buildings	158,474	198,101	196,551	182,856	160,961	172,338	190,292	181,321	164,887	145,162
New housing units	114,662	138,947	139,202	127,987	110,816	124,699	133,469	128,435	115,414	99,927
One unit	86,123	116,649	116,898	108,737	95,841	93,659	112,045	107,849	98,053	86,408
Two or more units	28,539	22,298	22,304	19,250	14,975	31,040	21,424	20,586	17,362	13,519
Improvements	43,812	59,154	57,349	54,869	(NA)	47,639	56,823	52,886	49,472	(NA)
Nonresidential buildings	103,455	106,994	113,988	117,971	96,763	111,262	103,037	105,711	106,369	86,934
Industrial	17,116	16,452	20,410	23,848	21,709	18,408	15,638	18,919	21,502	19,505
Office	34,276	30,902	31,538	28,722	22,676	36,867	29,761	29,263	25,902	20,373
Hotels, motels	7,925	7,486	8,401	9,673	6,279	6,524	7,213	7,791	8,723	5,643
Other commercial	30,443	33,122	33,958	34,140	25,357	32,734	31,893	31,482	30,780	22,781
Religious	2,615	3,110	3,278	3,390	3,394	2,811	2,995	3,040	3,055	3,049
Educational	2,058	3,209	3,648	4,219	3,901	2,213	3,091	3,382	3,803	3,505
Hospital and institutional	6,060	7,954	8,312	9,450	9,255	6,521	7,662	7,711	8,519	8,316
Miscellaneous ²	2,962	4,760	4,443	4,528	4,190	3,186	4,583	4,122	4,083	3,764
Farm nonresidential	2,197	2,270	2,295	2,670	(NA)	2,366	2,187	2,129	2,407	(NA)
Public utilities	32,692	27,949	29,881	30,953	(NA)	32,989	26,784	26,993	27,371	(NA)
Telecommunications	8,397	9,556	9,465	9,565	(NA)	8,264	9,475	8,525	8,499	(NA)
Other public utilities	24,295	18,993	20,416	21,388	(NA)	24,725	17,309	18,468	18,872	(NA)
Railroads	4,046	2,382	2,650	2,726	(NA)	4,079	2,275	2,452	2,477	(NA)
Electric light and power	16,460	11,978	13,038	12,882	(NA)	16,871	11,240	11,769	11,302	(NA)
Gas	3,517	3,656	4,386	5,369	(NA)	3,504	3,439	3,939	4,731	(NA)
Petroleum pipelines	272	377	342	411	(NA)	271	354	307	362	(NA)
All other private ³	2,726	2,126	2,702	3,326	3,608	2,751	2,033	2,501	3,024	3,206
Public construction	77,223	94,782	98,305	108,657	109,156	80,260	90,673	91,122	98,714	97,859
Buildings	27,861	36,362	39,567	45,825	49,574	30,000	35,009	36,668	41,309	44,548
Housing and development	2,893	3,276	3,621	3,733	3,544	3,146	3,147	3,341	3,368	3,198
Industrial	1,968	1,413	1,300	1,433	1,828	2,118	1,361	1,205	1,292	1,642
Educational	9,329	14,397	17,012	20,566	23,247	10,033	13,860	15,769	18,533	20,881
Hospital	2,497	2,708	2,514	2,610	2,658	2,686	2,608	2,332	2,354	2,388
Other ⁴	11,174	14,568	15,120	17,482	18,297	12,016	14,033	14,021	15,761	16,439
Highways and streets	23,741	29,228	28,174	30,593	29,041	23,455	27,586	26,138	28,211	26,165
Military facilities	3,235	3,579	3,520	2,732	1,849	3,341	3,417	3,261	2,492	1,664
Conservation and development	5,144	4,739	4,989	4,718	5,347	5,279	4,577	4,609	4,233	4,688
Sewer systems	6,960	8,818	9,405	10,403	10,255	7,139	8,519	8,687	9,327	8,990
Water supply facilities	2,580	4,000	3,999	4,973	4,941	2,671	3,872	3,755	4,588	4,566
Miscellaneous public ⁵	8,302	8,055	8,651	9,413	6,148	8,374	7,693	8,004	8,554	7,239

NA Not available. ¹ Includes estimates for types of construction indicated as (NA). ² Includes amusement and recreational buildings, bus and airline terminals, animal hospitals and shelters, etc. ³ Includes privately owned streets and bridges, parking areas, sewer and water facilities, parks and playgrounds, golf courses, airfields, etc. ⁴ Includes federal administrative buildings, prisons, police and fire stations, courthouses, civic centers, passenger terminals, space facilities, postal facilities, etc. ⁵ Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc.

Source: U.S. Bureau of the Census, *Current Construction Reports*, series C30, and press release, CB-91-14.

No. 1206. Value of Privately Owned Nonresidential Building Projects, by Construction Status, 1980 to 1990, and by Type of Project, 1990

[In billions of dollars]

CONSTRUCTION STATUS	1980	1983	1984	1985	1986	1987	1988	1989	1990			
									Total	Indus- trial	Office build- ing	Other com- mer- cial
Value of projects—												
Started	53.8	67.8	91.3	98.5	97.1	95.7	107.7	109.9	89.5	15.2	23.2	27.5
Completed	53.0	64.7	73.5	89.9	107.5	91.4	101.6	107.7	114.0	19.4	29.5	35.9

¹ Privately owned hotels and motels, religious, educational, hospital and institutional, and miscellaneous nonresidential building projects.

Source: U.S. Bureau of the Census, *Current Construction Reports*, series C30.

No. 1207. Construction Contracts—Value of Construction and Floor Space of Buildings, by Class of Construction: 1980 to 1991

[Includes new structures and additions, and major alterations to existing structures which affect only valuation, since no additional floor area is created by "alteration." See also *Historical Statistics, Colonial Times to 1970*, series N 7888-100]

YEAR	Total	Residential buildings	NONRESIDENTIAL BUILDINGS									Non-building construction
			Total	Commercial ¹	Manufacturing	Educational ²	Hospital	Public buildings	Religious	Social and recreational	Miscellaneous	
VALUE (bil. dol.)												
1980	151.8	60.4	56.9	27.7	9.2	7.4	5.4	1.6	1.2	2.7	1.7	34.5
1981	157.3	56.3	65.5	35.2	9.3	6.6	6.4	1.4	1.2	3.4	2.0	35.4
1982	157.1	55.0	64.6	32.3	9.6	6.8	8.0	1.9	1.2	2.8	2.0	37.5
1983	194.1	88.4	67.9	38.3	5.4	7.1	8.5	2.1	1.5	2.9	2.1	37.8
1984	214.3	95.3	82.1	48.2	7.9	8.5	7.4	2.7	1.7	3.3	2.4	36.9
1985	235.8	102.1	92.3	54.6	8.1	10.0	7.8	3.1	2.0	4.0	2.5	41.4
1986	249.3	115.6	91.6	52.4	7.3	11.7	7.9	3.2	2.1	4.2	2.8	42.1
1987	259.0	114.1	98.8	53.7	8.6	13.2	9.0	4.7	2.1	4.3	3.2	46.1
1988	262.2	116.2	97.9	51.6	9.5	14.1	8.2	4.4	2.2	4.7	3.2	48.1
1989	271.3	116.2	106.1	53.6	12.7	15.9	8.8	5.2	2.0	5.0	2.8	49.0
1990	246.4	101.0	95.6	45.1	8.4	16.6	9.2	5.7	2.2	5.3	3.1	49.8
1991	228.6	94.3	85.0	32.7	7.8	18.9	9.4	6.0	2.4	4.9	2.9	49.2
FLOOR SPACE (mil. sq. ft.)												
1980	3,102	1,839	1,263	738	220	103	55	18	28	49	52	(X)
1981	2,805	1,562	1,243	787	188	83	60	14	25	46	41	(X)
1982	2,455	1,440	1,015	631	119	82	71	19	25	38	30	(X)
1983	3,387	2,276	1,111	716	112	84	84	20	29	36	31	(X)
1984	9,661	2,311	1,350	901	157	100	70	23	29	37	34	(X)
1985	3,853	2,324	1,529	1,039	165	111	73	28	32	44	38	(X)
1986	3,935	2,481	1,454	960	148	129	73	30	32	44	39	(X)
1987	3,756	2,288	1,469	933	160	139	78	42	32	46	38	(X)
1988	3,594	2,181	1,413	883	162	142	71	38	32	49	37	(X)
1989	3,516	2,115	1,401	867	158	152	72	41	27	48	35	(X)
1990	3,025	1,818	1,207	698	128	152	69	47	29	51	32	(X)
1991	2,591	1,621	971	475	97	176	71	48	29	43	32	(X)

X Not applicable. ¹ Includes nonindustrial warehouses. ² Includes science.

No. 1208. Construction Contracts—Value, by State: 1985 to 1991

[In millions of dollars. See headnote, table 1207. Represents value of construction in States in which work was actually done]

STATE	1985	1989	1990	1991			STATE	1985	1989	1990	1991		
				Total (incl. non- bldg.)	Resi- dential	Non- resi- dential					Total (incl. non- bldg.)	Resi- dential	Non- resi- dential
U.S.	232,277	270,654	246,236	226,780	97,416	80,491	MO	3,851	4,180	3,833	3,904	1,581	1,323
AL.	2,886	3,022	2,940	2,664	1,187	951	MT	698	440	332	451	124	163
AK.	1,500	648	1,919	735	207	165	NE	1,040	1,128	1,318	1,225	501	345
AZ.	6,629	5,070	4,554	4,617	2,499	1,179	NV	1,629	3,702	3,335	2,434	1,249	817
AR.	1,649	1,636	1,437	1,627	715	461	NH	1,355	1,292	1,021	815	355	257
CA.	32,456	43,996	37,442	29,366	12,623	11,121	NJ	8,077	7,820	6,192	6,221	1,750	2,405
CO.	4,667	2,797	3,240	4,483	1,713	1,539	NM	1,771	1,271	1,123	1,504	544	415
CT.	3,385	3,679	3,012	2,783	880	1,224	NY	11,366	17,349	14,226	12,294	4,271	4,766
DE.	715	884	787	793	343	303	NC	6,671	7,419	6,629	6,852	3,290	2,505
DC.	985	1,282	795	626	52	434	ND	557	460	506	490	178	163
FL.	17,820	21,141	17,023	15,474	8,070	4,771	OH	6,943	10,302	9,897	9,460	4,064	3,595
GA.	7,566	7,970	7,124	6,831	3,472	2,172	OK	2,650	1,912	2,164	2,049	798	693
HI.	873	2,263	2,829	2,713	1,349	878	OR	1,634	2,545	3,102	2,484	1,409	689
ID.	758	775	986	1,054	627	223	RI	828	1,396	594	675	263	217
IL.	7,513	11,992	10,777	9,149	3,865	3,477	SC	3,446	3,444	3,666	3,451	1,629	1,226
IN.	4,045	5,496	6,311	5,196	2,575	1,750	SD	485	501	488	373	169	118
IA.	1,532	1,812	2,036	2,329	829	753	TN	4,394	5,027	4,388	4,277	2,055	1,293
KS.	2,227	2,089	2,171	2,237	923	697	TX	21,305	14,645	13,197	14,297	5,444	5,684
KY.	2,843	3,294	3,175	3,719	1,382	1,320	UT	1,633	1,698	1,884	1,719	860	489
LA.	3,889	3,201	3,193	2,942	848	1,069	VT	487	634	515	544	254	133
ME.	785	952	895	769	381	215	VA	7,586	9,057	7,192	6,307	3,040	2,060
MD.	5,703	7,368	6,052	5,083	2,475	1,800	WA	4,409	5,402	6,179	6,082	2,852	2,374
MA.	5,806	6,560	5,136	4,870	1,687	1,471	WV	858	836	1,253	885	226	269
MI.	5,827	8,262	7,669	7,196	3,250	2,693	WI	3,038	4,461	4,647	4,215	1,948	1,438
MN.	4,285	5,046	4,947	4,431	2,277	1,485	WY	693	407	461	513	131	105
MS.	1,543	1,561	1,569	1,887	562	787							

Source of tables 1207 and 1208: F. W. Dodge, National Information Services Division, McGraw-Hill Information Systems Company, New York, NY. Figures reported currently in *Dodge Construction Potentials*.

No. 1209. New Privately-Owned Housing Units Authorized, by State: 1990 and 1991

[Based on about 17,000 places in United States having building permit systems]

STATE	HOUSING UNITS (1,000)			VALUATION (mil. dol.)			STATE	HOUSING UNITS (1,000)			VALUATION (mil. dol.)		
	1991		1990	1991		1990		1991		1990	1991		
	Total	1 unit		Total	1 unit			Total	1 unit		Total	1 unit	
U.S.	1,110.8	948.8	753.5	86,522	78,772	69,723	MO	15.3	16.1	13.1	1,089	1,122	1,020
AL	12.5	11.3	8.8	683	692	624	MT	1.2	1.5	1.0	86	111	87
AK	0.7	1.0	0.9	92	137	128	NE	6.8	6.2	4.6	355	387	340
AZ	23.0	23.5	21.4	1,963	2,262	2,172	NV	25.1	21.0	15.3	1,427	1,280	1,094
AR	5.9	6.9	5.0	333	386	340	NH	4.1	3.5	3.3	361	304	298
CA	163.2	106.0	73.9	17,233	11,990	9,677	NJ	17.5	14.9	12.9	1,398	1,245	1,144
CO	11.9	14.1	12.9	1,157	1,512	1,453	NM	6.0	6.1	5.4	464	471	448
CT	7.6	7.5	5.9	649	667	614	NY	35.0	28.6	21.7	2,782	2,421	2,002
DE	5.1	4.3	3.8	274	238	225	NC	40.8	39.0	33.2	2,753	2,603	2,622
DC	0.4	0.3	0.1	21	17	7	ND	1.5	2.1	1.0	89	112	85
FL	126.3	95.3	71.0	8,424	7,087	6,080	OH	38.5	35.8	27.1	3,039	3,147	2,855
GA	41.3	37.6	33.6	2,720	2,701	2,568	OK	5.3	5.9	5.7	401	488	482
HI	8.7	9.2	4.7	1,008	1,138	571	OR	22.9	16.4	11.8	1,657	1,382	1,201
ID	5.7	6.6	5.5	445	519	476	PA	37.2	34.6	29.4	2,896	2,798	2,568
IL	38.3	32.8	26.0	3,515	3,189	2,865	RI	3.0	2.4	2.0	233	181	171
IN	25.0	23.9	19.4	2,033	1,995	1,844	SC	21.3	18.7	16.2	1,445	1,353	1,268
IA	7.6	8.0	5.9	531	603	524	SD	2.8	2.5	1.6	140	147	114
KS	8.5	7.8	6.6	659	644	600	TN	20.2	19.3	16.9	1,317	1,359	1,282
KY	11.8	12.0	9.2	771	784	705	TX	47.1	51.9	41.7	3,869	4,301	4,010
LA	6.5	7.2	6.7	440	509	494	UT	7.3	8.9	8.1	594	778	737
ME	4.8	3.7	3.5	325	280	270	VT	2.4	2.0	1.8	189	167	158
MD	32.0	25.2	21.0	2,180	1,915	1,744	VA	42.1	33.7	29.5	2,798	2,490	2,337
MA	14.3	12.7	11.3	1,321	1,265	1,197	WA	48.4	33.0	23.7	3,487	2,644	2,200
MI	38.9	33.8	28.2	2,746	2,597	2,358	WV	1.8	2.0	1.7	110	126	120
MN	23.5	21.1	18.1	1,867	1,882	1,746	WI	27.3	25.1	16.5	1,792	1,798	1,470
MS	5.9	5.2	4.4	298	285	267	WY	0.7	0.6	0.6	62	62	58

Source: U.S. Bureau of the Census, *Construction Reports*, series C40, annual.

No. 1210. Valuation of Construction Authorized by Permit, by Type of Construction and State: 1991

[In millions of dollars]

STATE	Total ¹	Residential	NONRESIDENTIAL				STATE	Total ¹	Residential	NONRESIDENTIAL			
			Total ²	Industrial	Office	Stores				Total ²	Industrial	Office	Stores
U.S.	153,409	78,772	32,674	4,975	6,998	9,282	MO	2,522	1,122	657	81	93	164
AL	1,648	692	471	49	115	123	MT	282	111	63	3	19	28
AK	295	137	74	5	12	34	NE	739	387	142	18	31	37
AZ	3,207	2,262	488	56	71	182	NV	2,256	1,280	403	67	48	153
AR	804	386	248	44	39	80	NH	609	304	140	9	32	57
CA	24,480	11,990	5,098	855	1,233	1,570	NJ	3,734	1,245	733	99	226	115
CO	2,536	1,512	301	50	32	59	NM	786	471	131	46	21	30
CT	1,602	667	247	11	33	55	NY	5,947	2,421	1,449	141	202	442
DE	572	238	147	39	28	34	NC	5,227	2,803	1,282	297	270	296
DC	170	17	71	-	58	7	ND	262	112	48	7	9	18
FL	12,007	7,087	2,195	119	313	736	OH	6,245	3,147	1,357	247	249	407
GA	4,730	2,701	993	144	203	342	OK	957	488	227	46	43	84
HI	2,116	1,138	471	53	214	44	OR	2,421	1,382	473	108	93	98
ID	824	519	168	36	30	43	PA	5,662	2,798	1,259	182	265	323
IL	6,711	3,189	1,538	268	416	431	RI	326	161	26	5	2	6
IN	3,453	1,995	826	177	149	272	SC	2,503	1,353	670	120	130	168
IA	1,249	603	329	51	60	103	SD	363	147	102	7	28	25
KS	1,185	644	206	48	36	52	TN	2,667	1,359	620	90	111	186
KY	1,424	784	368	62	107	99	TX	8,161	4,301	1,860	276	369	584
LA	1,101	509	287	15	93	83	UT	1,271	778	289	34	30	97
ME	569	280	105	12	12	41	VT	352	167	89	13	10	18
MD	3,623	1,915	563	125	106	163	VA	4,979	2,490	1,206	127	408	256
MA	2,869	1,265	396	50	58	83	WA	4,794	2,644	1,093	202	303	282
MI	5,075	2,597	1,079	231	256	289	WV	302	126	82	6	12	20
MN	3,628	1,882	671	70	104	215	WI	3,412	1,798	759	157	193	169
MS	592	285	143	16	17	62	WY	135	62	31	2	4	18

¹ Represents zero. ² Includes residential and nonresidential additions and alterations, residential nonhousekeeping buildings, and residential garages and carports, not shown separately. ³ Includes other types of construction not shown separately.

Source: U.S. Bureau of the Census, unpublished data.

No. 1211. New Privately-Owned Housing Units Started—Selected Characteristics: 1970 to 1991

[In thousands. For composition of regions, see table 25. See also *Historical Statistics, Colonial Times to 1970*, series N 156-163 and 170]

YEAR	Total units	STRUCTURES WITH—			REGION				CONDOMINIUM UNITS			TYPE OF ASSISTANCE	
		One unit	2 to 4 units	5 or more units	North-east	Mid-west	South	West	Total	Single-family	Multifamily	FHA	VA
1970	1,434	813	85	536	218	294	612	311	(NA)	(NA)	(NA)	421	61
1971	2,052	1,151	120	781	264	434	869	486	(NA)	(NA)	(NA)	528	94
1972	2,357	1,309	141	906	330	443	1,057	527	(NA)	(NA)	(NA)	371	104
1973	2,045	1,132	118	795	277	440	899	429	241	69	172	163	86
1974	1,338	888	68	382	163	317	553	285	175	46	130	95	73
1975	1,160	892	64	204	149	294	442	275	65	20	45	98	77
1976	1,538	1,162	86	289	169	400	569	400	95	30	64	144	100
1977	1,987	1,451	122	414	202	465	783	538	118	41	77	178	131
1978	2,020	1,433	125	462	200	451	824	545	156	42	114	178	127
1979	1,745	1,194	122	429	178	349	748	470	198	43	156	178	122
1980	1,292	852	110	331	125	218	643	306	186	35	150	177	95
1981	1,084	705	91	288	117	165	562	240	181	36	145	145	75
1982	1,062	663	80	320	117	149	591	205	170	40	130	152	73
1983	1,703	1,068	113	522	168	218	935	382	276	77	199	121	107
1984	1,750	1,084	121	544	204	243	866	436	291	96	184	63	97
1985	1,742	1,072	93	576	252	240	782	468	225	79	146	159	90
1986	1,805	1,179	84	542	294	296	733	493	214	80	134	266	80
1987	1,620	1,146	65	409	269	298	634	420	196	73	123	176	58
1988	1,488	1,081	59	348	235	274	575	404	148	53	95	117	52
1989	1,376	1,003	55	318	179	266	536	396	118	37	82	(NA)	(NA)
1990	1,193	895	37	260	131	253	479	329	75	22	53	(NA)	(NA)
1991	1,014	840	36	138	113	233	414	254	60	21	39	(NA)	(NA)

NA Not available. ¹Type of ownership under which the owners of the individual housing units are also joint owners of the common areas of the building or community. Includes a small number of cooperatively-owned units.

Source: U.S. Bureau of the Census, *Construction Reports*, series C20, and press release, CB92-11.

No. 1212. New Privately-Owned Housing Units Started, by State: 1985 to 1991

[In thousands of units]

REGION, DIVISION, AND STATE	1985	1989	1990	1991		REGION, DIVISION, AND STATE	1985	1989	1990	1991	
				Total units	Single-family units					Total units	Single-family units
U.S. . .	1,741.0	1,374.0	1,193.0	1,015.0	842.0	DC . . .	0.7	3.5	0.3	0.2	0.2
Northeast . . .	251.0	177.0	131.0	113.0	99.0	VA . . .	74.6	66.8	43.8	34.3	28.3
N.E. . .	90.8	58.3	39.2	33.3	30.6	WV . . .	2.0	1.7	2.5	2.2	2.0
ME. . .	7.8	6.7	5.4	3.9	3.6	NC . . .	82.6	51.2	51.4	42.0	37.7
NH. . .	15.5	6.5	4.8	3.6	3.3	SC . . .	30.8	24.0	22.3	19.8	18.0
VT. . .	3.7	3.7	2.8	2.2	2.0	GA . . .	67.9	53.7	43.4	40.8	35.5
MA. . .	34.6	21.9	14.7	12.8	12.0	FL . . .	193.8	165.4	126.1	98.1	80.7
RI. . .	4.8	5.0	3.2	2.8	2.5	E.S.C. . .	93.6	61.6	67.5	60.7	52.2
CT. . .	24.3	14.5	8.3	8.1	7.2	KY . . .	19.9	14.3	15.2	13.8	11.8
M.A. . .	160.2	119.2	91.8	79.7	68.4	TN . . .	45.5	28.3	26.7	24.0	21.3
NY. . .	60.4	42.9	36.6	27.6	22.3	AL . . .	19.3	12.0	18.5	16.5	13.7
N.J. . .	56.3	34.4	17.5	16.2	14.4	MS . . .	8.9	7.0	7.1	6.5	5.4
PA. . .	43.5	41.9	37.7	35.8	31.6	W.S.C. . .	191.9	62.3	83.9	87.8	77.6
Midwest . . .	241.0	266.0	253.0	234.0	192.0	AR . . .	9.9	6.7	10.6	9.1	8.2
E.N.C. . .	149.2	192.9	183.6	162.3	131.9	OK . . .	14.0	7.1	7.3	8.2	7.6
OH. . .	30.2	47.3	45.2	41.1	33.5	TX . . .	150.8	41.6	59.3	62.0	54.9
IN. . .	21.3	31.0	29.4	27.5	24.3	West . . .	467.0	394.0	329.0	254.0	197.0
IL. . .	42.4	46.9	39.5	35.5	29.7	Mt. . .	157.5	81.6	85.9	85.4	70.9
MI. . .	38.3	40.6	41.2	32.7	25.6	MT . . .	2.8	0.6	2.8	3.3	2.6
WI. . .	17.1	26.9	28.2	25.5	18.9	ID . . .	4.2	4.8	6.7	8.5	7.8
W.N.C. . .	81.8	73.1	69.6	71.7	60.1	WY . . .	3.8	0.5	1.4	2.0	1.9
MN. . .	25.7	22.9	21.7	21.9	20.1	CO . . .	33.6	10.7	12.6	15.4	12.5
IA. . .	4.6	9.0	9.3	9.5	7.6	NM . . .	9.8	5.3	4.7	4.6	4.2
MO. . .	33.4	19.5	17.4	18.1	15.2	AZ . . .	72.1	24.1	23.6	25.4	23.0
ND. . .	1.9	2.3	1.8	2.9	1.5	UT . . .	17.3	5.5	7.4	8.9	8.4
SD. . .	2.7	2.6	3.2	2.7	2.2	NV . . .	14.0	30.2	26.7	17.5	10.5
NE. . .	5.4	7.1	7.3	7.1	5.6	Pac. . .	309.5	313.4	243.5	168.6	126.1
KS. . .	18.1	9.7	9.0	9.4	7.9	WA . . .	34.4	45.9	48.3	34.2	26.1
South. . .	782.0	535.0	479.0	414.0	354.0	OR . . .	11.5	13.5	15.4	15.3	10.5
S.A. . .	496.5	411.8	328.0	265.6	224.4	CA . . .	253.4	245.5	171.6	109.1	82.7
DE. . .	4.9	7.0	6.1	5.5	4.8	AK . . .	4.3	0.6	1.2	1.6	1.3
MD. . .	39.3	38.6	32.1	22.7	17.2	HI . . .	5.9	7.8	7.0	8.3	5.5

Source: National Association of Home Builders, Economics Division, Washington, DC. Data provided by the Econometric Forecasting Service.

No. 1213. Characteristics of New Privately Owned One-Family Houses Completed: 1970 to 1991

[Percent distribution, except as indicated. Data beginning 1980 show percent distribution of characteristics for all houses completed (includes new houses completed, houses built for sale completed, contractor-built and owner-built houses completed, and houses completed for rent). Data for 1970 cover contractor-built, owner-built, and houses for rent for year construction started and houses sold for year of sale. Percents exclude houses for which characteristics specified were not reported]

CHARACTERISTIC	1970	1980	1985	1990	1991	CHARACTERISTIC	1970	1980	1985	1990	1991
Total houses (1,000) . . .	793	957	1,072	966	838	Bedrooms	100	100	100	100	100
Financing	100	100	100	100	100	2 or less	13	17	25	15	14
Mortgage	84	81	81	82	81	3	63	63	57	57	59
FHA-insured	30	16	15	14	13	4 or more	24	20	18	29	27
VA-guaranteed	7	8	7	4	5	Bathrooms	100	100	100	100	100
Conventional	47	55	57	62	61	1 1/2 or less	20	10	11	5	13
Farmers Home Administration	(1)	3	3	2	2	2	32	48	48	42	43
Cash or equivalent	16	18	19	18	19	2 1/2 or more	16	25	29	45	44
Floor area	100	100	100	100	100	Heating fuel	100	100	100	100	100
Under 1,200 sq. ft.	36	21	20	11	12	Electricity	28	50	44	33	32
1,200 to 1,599 sq. ft.	28	29	30	22	22	Gas	62	41	49	59	60
1,600 to 1,999 sq. ft.	16	22	21	22	21	Oil	8	3	3	59	4
2,000 to 2,399 sq. ft.	21	13	12	17	17	Other	1	5	4	3	4
2,400 sq. ft. and over	(2)	15	17	29	28	Heating system	100	100	100	100	100
Average (sq. ft.)	1,500	1,740	1,785	2,080	2,075	Warm air furnace	71	57	54	65	65
Median (sq. ft.)	1,385	1,595	1,605	1,905	1,890	Electric heat pump	(NA)	24	30	23	23
Number of stories	100	100	100	100	100	Other	29	19	15	12	12
1	74	60	52	46	48	Central air-conditioning	100	100	100	100	100
2 or more	17	31	42	49	47	With	34	63	70	76	75
Split level	10	8	6	4	5	Without	66	37	30	24	25
Foundation	100	100	100	100	100	Fireplaces	100	100	100	100	100
Full or partial basement	37	36	35	38	40	No fireplace	65	43	41	34	37
Slab	36	45	48	40	38	1 or more	35	56	59	66	63
Crawl space	27	19	18	21	22	Parking facilities	100	100	100	100	100
Garage						With	58	69	70	82	81
Carport						Without	17	7	5	2	3
No garage or carport						No garage or carport	25	24	25	16	16

NA Not available. (1) Included with "Conventional" financing.

No. 1214. New Privately Owned One-Family Houses Sold, by Region and Type of Financing, 1970 to 1991, and by Sales-Price Group, 1991

[In thousands. Based on a national probability sample of monthly interviews with builders or owners of one-family houses for which building permits have been issued on which construction has started. For details, see source. For composition of regions, see table 25]

YEAR AND SALES-PRICE GROUP	Total sales	REGION				FINANCING TYPE			
		North-east	Midwest	South	West	Conventional	FHA and VA	Farmers Home Admin.	Cash
1970	485	61	100	203	121	1,213	244	(1)	27
1971	656	82	127	270	176	1,314	314	(1)	28
1972	718	96	130	305	187	1,447	242	(1)	30
1973	634	95	120	257	161	1,465	134	(1)	34
1974	519	69	103	207	139	1,378	112	(1)	28
1975	549	71	106	222	150	363	122	43	22
1976	646	72	128	247	199	458	134	23	31
1977	819	86	162	317	255	592	166	24	38
1978	817	78	145	331	262	575	174	26	43
1979	709	67	112	304	225	469	186	18	36
1980	545	50	81	267	145	302	196	14	32
1981	436	46	60	219	112	244	142	14	36
1982	412	47	48	219	99	193	173	11	34
1983	623	76	71	323	152	350	217	8	49
1984	639	94	76	309	160	423	149	9	58
1985	688	112	82	323	170	403	208	11	64
1986	750	136	96	322	196	411	268	12	59
1987	671	117	97	271	186	408	190	8	64
1988	676	101	97	276	202	437	171	6	62
1989	650	86	102	260	202	416	162	14	58
1990	534	71	89	225	149	337	138	10	50
1991, prel.	509	57	93	215	144	329	128	9	43
Under \$80,000	98	(B)	22	62	12	32	50	(B)	8
\$80,000 to \$119,999	153	11	29	73	40	81	59	(B)	13
\$120,000 to \$149,999	86	13	15	32	27	64	13	(B)	9
\$150,000 to \$199,999	82	14	14	24	29	71	(B)	(B)	6
\$200,000 and over	89	17	13	24	35	81	(B)	(B)	7

B Withheld because estimate did not meet publication standards on the basis of sample size. (1) Houses financed by Farmers Home Administration included under conventional financing.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual; and *New One-Family Houses Sold*, monthly.

Construction and Housing

No. 1215. Median Sales Price of New Privately Owned One-Family Houses Sold, by Region: 1970 to 1991

[In dollars. For definition of median, see Guide to Tabular Presentation. For composition of regions, see table 25]

YEAR	U.S.	North-east	Midwest	South	West	YEAR	U.S.	North-east	Midwest	South	West
1970.....	23,400	30,300	24,400	20,300	24,000	1981.....	68,900	76,000	65,900	64,400	77,800
1971.....	25,200	30,600	27,200	22,500	25,500	1982.....	69,300	78,200	68,900	66,100	75,000
1972.....	27,600	31,400	29,300	25,800	27,500	1983.....	75,300	82,200	79,500	70,900	80,100
1973.....	32,500	37,100	32,900	30,900	32,400	1984.....	79,900	88,600	85,400	72,000	87,300
1974.....	35,900	40,100	36,100	34,500	35,800	1985.....	84,300	103,300	80,300	75,000	92,600
1975.....	39,300	44,000	39,600	37,300	40,600	1986.....	92,000	125,000	88,300	80,200	95,700
1976.....	44,200	47,300	44,800	40,500	47,200	1987.....	104,500	140,000	95,000	88,000	111,000
1977.....	48,800	51,800	51,500	44,100	53,500	1988.....	112,500	149,000	101,600	92,000	126,500
1978.....	55,700	58,100	59,200	50,300	61,300	1989.....	120,000	159,600	108,800	96,400	139,000
1979.....	62,900	65,500	63,900	57,300	69,600	1990.....	122,900	159,000	107,900	99,000	147,500
1980.....	64,600	69,500	63,400	59,600	72,300	1991.....	120,000	155,400	110,000	100,000	142,300

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Current Construction Reports*, series C25, *Characteristics of New Housing*, annual; and *New One-Family Houses Sold*, monthly.**No. 1216. New Mobile Homes Placed for Residential Use and Average Sales Price, by Region: 1975 to 1991**

[A mobile home is a moveable dwelling, 10 feet or more wide and 35 feet or more long, designed to be towed on its own chassis and without need of a permanent foundation. Excluded are travel trailers, motor homes, and modular housing. Data are based on a probability sample and subject to sampling variability; see source. For composition of regions, see table 25]

YEAR	UNITS PLACED (1,000)					AVERAGE SALES PRICE (dol.)				
	Total	North-east	Mid-west	South	West	U.S.	North-east	Mid-west	South	West
1975.....	229.3	14.7	48.5	110.8	55.2	10,600	10,500	10,700	9,000	13,600
1980.....	233.7	12.3	32.3	140.3	48.7	19,800	18,500	18,600	18,200	25,400
1981.....	229.2	12.0	30.1	143.5	43.6	19,900	19,000	18,900	18,400	25,600
1982.....	234.1	12.4	25.6	161.1	35.0	19,700	19,800	20,000	18,500	24,700
1983.....	278.1	16.3	34.3	186.0	41.4	21,000	21,400	20,400	19,700	27,000
1984.....	287.9	19.8	35.2	193.4	39.4	21,500	22,200	21,100	20,200	27,400
1985.....	283.4	20.2	38.6	187.6	36.9	21,800	22,700	21,500	20,400	28,700
1986.....	256.1	21.2	37.2	162.3	35.4	22,400	24,400	21,800	20,700	29,900
1987.....	239.2	23.6	40.0	145.5	30.1	23,700	25,600	23,700	21,900	31,000
1988.....	224.3	22.7	39.1	130.7	31.8	25,100	27,000	24,600	22,700	33,900
1989.....	202.8	20.2	39.1	112.8	30.6	27,200	30,200	26,700	24,100	37,800
1990.....	195.4	18.8	37.7	108.4	30.6	27,800	30,000	27,000	24,500	39,300
1991, prel.	174.0	14.4	35.5	97.2	26.9	27,800	30,500	27,600	24,500	38,600

Source: U.S. Bureau of the Census, *Current Construction Reports*, series C20.**No. 1217. Existing One-Family Houses Sold and Price, by Region: 1970 to 1991**

[Based on data (adjusted and aggregated to regional and national totals) reported by participating real estate multiple listing services. See Guide to Tabular Presentation. For composition of regions, see fig. I, inside front cover.]

YEAR	HOUSES SOLD (1,000)					MEDIAN SALES PRICE (dol.)				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1970.....	1,612	251	501	568	292	23,000	25,200	20,100	22,200	24,300
1971.....	2,018	311	583	735	389	24,800	27,100	22,100	24,300	26,500
1972.....	2,252	361	630	788	473	26,700	29,800	23,900	26,400	28,400
1973.....	2,334	367	674	847	446	28,900	32,800	25,300	29,000	31,000
1974.....	2,272	354	645	839	434	32,000	35,800	27,700	32,300	34,800
1975.....	2,476	370	701	862	543	35,300	39,300	30,100	34,800	39,600
1976.....	3,064	439	881	1,033	712	38,100	41,800	32,900	36,500	46,100
1977.....	3,850	515	1,101	1,231	803	42,900	44,400	36,700	39,800	57,300
1978.....	3,986	516	1,144	1,416	911	48,700	47,900	42,200	45,100	66,700
1979.....	3,827	526	1,061	1,353	887	55,700	53,600	47,800	51,300	77,400
1980.....	2,973	403	806	1,092	672	62,200	60,800	51,900	58,300	89,300
1981.....	2,419	353	632	917	516	66,400	63,700	54,300	64,400	98,200
1982.....	1,990	354	490	780	366	67,800	63,500	55,100	67,100	98,900
1983.....	2,719	493	709	1,035	481	70,300	72,200	56,600	69,200	94,900
1984.....	2,868	511	755	1,073	529	72,400	78,700	57,100	71,300	95,800
1985.....	3,214	622	866	1,172	554	75,500	88,900	58,900	75,200	95,400
1986.....	3,565	703	991	1,261	610	80,300	104,800	63,500	78,200	100,900
1987.....	3,526	685	959	1,282	600	85,600	133,300	66,000	80,400	113,200
1988.....	3,594	673	929	1,350	642	89,300	143,000	68,400	82,200	124,900
1989.....	3,346	531	855	1,185	775	93,100	145,200	71,300	84,500	139,900
1990.....	3,211	469	831	1,202	709	95,500	141,200	74,000	85,900	139,600
1991.....	3,220	479	840	1,199	702	100,300	141,900	77,800	88,900	147,200

Source: NATIONAL ASSOCIATION OF REALTORS, Washington, DC, *Home Sales*, monthly, and *Home Sales Yearbook*: 1990, (copyright).

No. 1218. Median Sales Price of Existing One-Family Homes, by Selected Metropolitan Area: 1985 to 1991

[In thousands of dollars. Areas are metropolitan statistical areas (MSA's) except as indicated; for definitions and components, see Appendix II]

METROPOLITAN AREA	1985	1989	1990	1991	METROPOLITAN AREA	1985	1989	1990	1991
U.S., all areas	75.5	93.1	95.5	100.3	Louisville, KY-IN	50.6	58.4	60.8	65.4
Akron, OH PMSA	52.7	64.5	67.7	71.8	Memphis, TN-AR-MS	64.6	78.1	76.1	82.5
Albany-Schenectady-Troy, NY	60.3	104.9	106.9	110.3	Miami-Hialeah, FL PMSA	80.5	86.9	89.3	93.7
Albuquerque, NM	76.8	83.0	84.5	86.8	Milwaukee, WI PMSA	67.5	79.6	84.4	90.0
Anaheim-Santa Ana, CA PMSA	134.7	241.9	242.4	239.7	Minneapolis-St. Paul, MN-WI	75.2	87.2	88.7	91.1
Baltimore, MD	72.6	96.3	105.9	110.1	Nashville, TN	66.1	79.9	81.8	86.9
Baton Rouge, LA	74.6	63.8	64.9	69.4	New York-Northern New Jersey-Long Island, NY-NJ-CT CMA	134.0	183.2	174.9	173.5
Birmingham, AL	64.5	78.5	80.8	86.0	Oklahoma City, OK	64.7	53.5	53.2	57.0
Boston, MA PMSA	134.2	181.9	174.1	170.1	Omaha, NE-IA	58.3	60.6	63.0	66.5
Buffalo-Niagara Falls, NY	72.2	77.9	81.6	85.2	Orlando, FL	70.3	79.8	82.8	86.3
CMSA	46.7	72.5	77.2	79.7	Philadelphia, PA-NJ PMSA	74.0	103.9	108.7	118.4
Chicago, IL PMSA	81.1	107.0	116.8	131.1	Phoenix, AZ	74.8	78.8	84.0	85.5
Cincinnati, OH-KY-IN PMSA	60.2	75.8	79.8	84.9	Portland, OR PMSA	61.5	70.1	79.5	88.5
Cleveland, OH PMSA	64.4	75.2	80.6	86.2	Providence, RI PMSA	67.5	130.2	127.9	124.3
Columbus, OH	62.2	77.9	81.6	85.2	Riverside/San Bernardino, CA PMSA	85.0	124.1	132.1	135.4
Dallas, TX PMSA	94.0	93.4	89.5	88.3	Rochester, NY	64.2	78.5	79.8	81.5
Denver, CO PMSA	84.3	85.5	86.4	89.1	St. Louis, MO-IL	65.7	76.9	76.7	79.4
Des Moines, IA	52.5	57.5	60.5	68.2	Salt Lake City-Ogden, UT	66.7	69.4	69.4	72.8
Detroit, MI PMSA	51.7	73.7	76.7	80.6	San Antonio, TX	67.7	64.2	63.6	64.9
Ft. Lauderdale-Hollywood-Pompano Beach, FL PMSA	74.6	83.9	92.6	96.2	San Diego, CA	107.4	181.9	183.2	187.5
Ft. Worth, TX PMSA	74.9	79.9	76.7	77.6	San Francisco-Oakland-San Jose, CA CMA	145.1	260.7	259.3	256.6
Hartford, CT PMSA	99.6	165.9	157.3	148.2	Seattle/Tacoma, WA CMA	(NA)	115.0	142.0	143.1
Honolulu, HI	162.1	270.0	352.0	353.8	Syracuse, NY	58.8	79.3	80.7	77.7
Houston, TX PMSA	78.6	66.7	70.7	74.0	Tampa-St. Petersburg-Clearwater, FL	58.4	71.9	71.4	71.3
Indianapolis, IN	55.0	71.2	74.8	79.1	Tulsa, OK	66.7	62.6	63.9	65.4
Jacksonville, FL	58.4	69.3	72.4	73.7	Washington, DC-MD-VA	97.1	144.4	150.5	156.7
Kansas City, MO-KS	61.4	71.6	74.1	76.6	West Palm Beach-Boca Raton-Delray Beach, FL	88.3	102.6	108.0	116.3
Las Vegas, NV	75.1	85.7	93.0	101.4					
Los Angeles-Long Beach, CA PMSA	125.2	214.8	212.1	214.9					

NA Not available.

Source: NATIONAL ASSOCIATION OF REALTORS, Washington, DC, *Home Sales*, monthly, and *Home Sales Yearbook*: 1990, (copyright).

No. 1219. Existing Home Sales, by State: 1985 to 1991

[In thousands]

REGION, DIVISION, AND STATE	1985	1988	1989	1990	1991	REGION, DIVISION, AND STATE	1985	1988	1989	1990	1991
U.S. ¹	3,214.0	3,594.0	3,346.0	3,211.0	3,220.0	DC . . .	9.2	8.0	15.5	13.1	12.5
Northeast	624.6	697.7	603.4	523.1	537.6	VA . . .	116.0	130.7	116.0	96.9	90.3
N.E.	156.9	178.4	142.8	100.1	112.4	WV . . .	31.1	36.4	36.8	42.0	43.3
ME.	21.8	18.4	9.0	(NA)	(NA)	NC . . .	107.9	134.7	127.5	135.9	139.9
NH.	14.5	13.8	9.7	7.9	GA . . .	48.4	55.0	52.2	57.8	53.9	
VT.	7.5	9.5	6.2	6.1	FL . . .	58.7	78.2	73.6	73.2	70.7	
MA.	60.2	76.5	67.4	44.0	E.S.C. . .	142.7	179.2	177.6	183.3	176.0	
RI.	10.3	11.0	9.5	7.8	KY . . .	51.8	60.9	62.2	66.4	67.8	
CT.	42.6	49.2	41.0	34.3	TN . . .	89.3	93.9	95.2	92.7	92.0	
M.A.	467.7	519.3	460.6	423.0	AL . . .	54.8	61.5	59.4	61.1	64.0	
NY.	150.0	160.5	140.2	125.5	MS. . .	34.7	36.6	36.5	34.7	35.2	
N.J.	160.2	133.6	126.6	114.8	W.S.C. . .	312.1	359.3	350.5	379.8	385.0	
PA.	157.5	225.2	193.8	182.7	TX . . .	183.5	225.2	213.1	240.0	242.0	
Midwest	851.7	924.0	918.8	890.2	900.6	West	767.6	950.9	941.6	866.2	828.0
E.N.C.	561.5	633.1	633.4	609.3	618.9	Mt. . . .	243.0	236.3	230.5	250.6	256.7
OH.	147.6	180.6	163.4	151.6	149.8	MT . . .	11.7	12.5	13.0	12.7	13.9
IN.	88.4	81.6	81.6	80.1	76.0	ID . . .	14.2	13.1	15.0	18.1	19.0
IL.	130.2	168.1	162.7	160.9	168.1	WY . . .	8.0	7.4	7.3	7.4	8.2
MI.	153.4	147.6	151.6	145.0	145.0	CO . . .	64.4	60.9	53.9	54.2	59.6
WI.	61.9	75.2	74.1	71.7	80.0	NM . . .	22.2	20.5	21.9	23.6	24.4
W.N.C.	270.2	290.9	285.4	280.9	281.7	AZ . . .	83.6	80.3	77.7	86.3	79.7
MN.	67.4	70.8	62.7	64.8	66.3	UT . . .	22.1	20.7	20.3	22.1	26.3
IA.	36.4	57.9	54.6	51.9	54.1	NV . . .	16.8	20.9	21.4	26.2	25.6
MO.	78.9	73.0	81.0	84.1	82.7	Pac. . .	524.6	714.6	711.1	615.6	571.3
ND.	8.8	10.2	10.3	10.4	10.3	WA . . .	61.8	73.4	90.8	87.7	86.9
SD.	10.5	11.4	10.8	11.6	11.3	OR . . .	36.1	48.9	53.2	56.6	48.1
NE.	22.6	20.0	20.9	19.3	19.9	CA . . .	404.9	562.8	539.3	452.1	424.1
KS.	45.6	47.6	45.1	38.8	37.1	AK . . .	9.5	9.1	6.6	(NA)	(NA)
South.	1,139.3	1,328.4	1,291.6	1,313.7	1,307.8	HI . . .	12.3	20.4	21.2	19.2	12.2
S.A.	596.6	716.2	687.8	679.0	663.8						
DE.	11.3	12.4	11.8	9.7	10.4						
MD.	71.3	81.6	76.8	67.1	66.8						

NA Not available. ¹ U.S. totals are derived independently and therefore are not equal to the sum of the States. ² Provided by the California Association of Realtors.

Source: NATIONAL ASSOCIATION OF REALTORS, Washington, DC, *Existing Home Sales*, monthly, (copyright).

Construction and Housing

No. 1220. New Apartments Completed and Rented in 3 Months, by Region: 1980 to 1990

[Structures with 5 or more units, privately financed, nonsubsidized, unfurnished apartments. Based on sample and subject to sampling variability. For composition of regions, see table 25]

YEAR AND RENT	NUMBER (1,000)					PERCENT RENTED IN 3 MONTHS				
	U.S.	North-east	Mid-west	South	West	U.S.	North-east	Mid-west	South	West
1980	196.1	14.2	43.8	91.5	46.6	75	77	77	74	75
1981	135.3	4.9	36.9	68.4	25.1	80	85	86	78	75
1982	117.0	4.6	21.9	66.8	23.7	72	74	79	70	72
1983	191.5	3.5	41.1	115.1	31.8	69	73	86	63	69
1984	313.2	3.8	41.2	194.4	73.9	67	64	79	63	70
1985	365.2	8.1	54.0	166.1	137.0	65	69	72	59	68
1986	407.6	16.9	64.5	171.7	154.5	66	70	70	62	67
1987	345.6	11.3	66.0	124.5	143.9	63	73	65	59	64
1988	264.5	8.7	60.4	91.7	123.8	66	52	73	58	69
1989	247.8	13.4	45.8	86.3	102.3	70	74	74	68	69
1990	214.8	12.6	44.3	77.3	80.4	67	67	75	64	65
Less than \$350	13.8	1.0	4.9	5.1	3.0	66	100	93	69	9
\$350-\$449	26.0	3.4	10.4	8.4	3.9	82	90	87	78	71
\$450-\$549	45.9	3.9	10.8	18.6	12.7	70	51	78	66	75
\$550-\$649	43.9	1.0	7.1	19.0	16.9	67	62	77	63	67
\$650-\$749	33.3	1.3	5.9	11.6	14.6	61	51	54	59	66
\$750 or more	51.8	2.6	5.2	14.6	29.4	60	63	49	55	64
Median asking rent	\$599	\$510	\$513	\$584	\$676	(X)	(X)	(X)	(X)	(X)

X Not applicable.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-130 and H-131, and unpublished data.

No. 1221. Gross Housing Product—Summary: 1970 to 1990

[In billions of dollars. For definition of current and constant dollars, see Guide to Tabular Presentation]

ITEM	CURRENT DOLLARS					CONSTANT (1982) DOLLARS				
	1970	1980	1985	1988	1990	1970	1980	1985	1988	1990
Housing output ¹	90.5	245.3	377.0	464.2	493.3	525.4	257.6	383.1	418.7	442.9
Nonfarm housing	87.3	240.2	372.0	459.4	488.4	520.5	249.6	376.9	413.5	450.2
Owner-occupied	61.3	178.4	271.0	334.1	355.8	379.7	174.4	278.7	301.3	317.6
Tenant-occupied	26.0	61.8	101.0	125.3	132.6	140.8	75.1	98.2	112.2	122.8
Farm housing	3.3	5.1	5.0	4.9	5.0	4.9	8.0	8.3	5.3	4.7
Less: Intermediate goods and services consumed	13.0	35.8	49.9	63.1	64.3	71.1	37.0	55.9	55.4	60.2
Equals: Gross housing product	77.5	209.5	327.1	401.2	429.0	454.3	220.6	327.2	363.3	389.7
										394.7

¹ Equals personal consumption expenditures (see text, section 14) for housing, less expenditures for transient hotels, motels, clubs, schools, and other group housing.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, March 1992 issue, and unpublished data.

No. 1222. Residential Capital—Yearend Stocks and Average Age: 1970 to 1991

[As of Dec. 31. Data based on fixed residential capital formation components of the gross national product. For definition of current and constant dollars, see Guide to Tabular Presentation]

ITEM	CURRENT DOLLARS (bill. dol.)					CONSTANT (1987) DOLLARS (bill. dol.)					AVERAGE AGE ¹ (years)				
	1970	1980	1985	1990	1991	1970	1980	1985	1990	1991	1970	1980	1985	1990	1991
Gross stocks ²	1,244	4,380	5,706	7,543	7,869	3,961	5,430	6,057	6,897	7,014	24.8	23.2	23.7	23.6	23.8
Private nonfarm:															
1 to 4 units	1,001	3,502	4,566	6,075	6,345	3,208	4,356	4,852	5,557	5,659	25.3	23.9	24.3	24.2	24.3
5 or more units	131	522	701	933	974	421	647	746	853	864	17.7	17.8	18.7	19.8	20.3
Farm (1 to 4 units)	55	136	150	163	167	176	170	159	150	148	43.9	42.8	43.4	43.2	42.9
Private nonhouse-keeping	10	24	27	32	32	32	29	29	29	29	14.6	19.3	22.0	23.6	23.9
Mobile homes	15	79	104	124	129	31	88	106	112	110	5.1	7.7	9.2	10.7	11.0
Public: Federal, State and local	25	88	116	155	163	80	109	123	141	145	14.9	19.3	21.1	22.4	22.7
Net stocks ^{2,3}	813	2,900	3,715	4,896	5,080	2,590	3,594	3,945	4,475	4,529	16.2	15.8	16.6	16.9	17.1
Private nonfarm:															
1 to 4 units	656	2,334	2,988	3,981	4,149	2,102	2,902	3,186	3,650	3,702	16.8	16.3	17.1	17.2	17.4
5 or more units	93	371	487	629	649	301	459	518	574	575	11.0	12.8	14.0	15.2	15.7
Farm (1 to 4 units)	24	58	62	68	70	76	73	66	62	62	28.7	26.4	27.2	26.6	26.3
Private nonhouse-keeping	6	12	12	14	14	21	15	13	12	12	9.0	16.0	18.5	18.4	18.3
Mobile homes	11	48	57	62	62	23	54	58	55	53	3.8	6.0	6.7	7.5	7.7
Public: Federal, State and local	18	60	76	99	103	60	74	81	90	92	12.7	15.9	16.9	17.3	17.4

¹ Constant-dollar stocks. ² Includes equipment, not shown separately. ³ Based on straight-line depreciation.

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-89*, forthcoming, and *Survey of Current Business*, January 1992 issue, and unpublished data.

Housing Units by State

715

No. 1223. Housing Units—Selected Characteristics, by State: 1990 [As of April 1]

REGION, DIVISION, AND STATE	ALL HOUSING UNITS							OCCUPIED UNITS		VACANT UNITS		
	Total (1,000)	Percent change, 1980-90	Units in structure					Total (1,000)	With 1.01 or more persons per room	Total (1,000)	Vacancy rate (per- cent)	
			1 unit detached	1 unit attached	2-4 units	5-9 units	10 or more units					
U.S.	102,264	15.7	60,383	5,378	9,876	4,936	13,169	7,400	91,947	4,549	10,316	10.1
Northeast	20,811	9.0	10,253	1,657	3,488	1,019	3,464	637	18,873	735	1,938	9.3
N.E.	5,570	14.8	3,050	211	1,133	327	820	153	4,943	112	628	11.3
ME	587	17.2	378	12	74	29	26	55	465	8	122	20.7
NH	504	30.4	298	23	68	27	46	35	411	7	93	18.6
VT	271	21.5	168	9	41	14	10	23	211	4	61	22.3
MA	2,473	12.0	1,238	89	597	159	339	24	2,247	57	226	9.1
RI	415	11.2	219	11	109	23	43	5	378	9	37	8.8
CT	1,321	14.0	749	67	244	75	155	12	1,230	28	90	6.8
M.A.	15,240	7.1	7,203	1,446	2,355	692	2,844	483	13,930	623	1,310	8.6
NY	7,227	5.2	2,929	302	1,320	375	1,998	195	6,639	432	588	8.1
N.J.	3,075	10.9	1,637	235	527	146	453	34	2,795	109	281	9.1
PA	4,938	7.4	2,637	910	507	171	393	255	4,496	83	442	9.0
Midwest	24,493	7.3	16,218	754	2,394	1,080	2,470	1,339	22,317	556	2,176	6.9
E.N.C.	17,028	6.6	11,044	544	1,825	827	1,759	861	15,597	413	1,431	8.4
OH	4,372	6.4	2,897	148	461	204	416	206	4,088	72	284	6.5
IN	2,246	7.4	1,574	57	171	100	168	157	2,065	45	181	8.0
IL	4,506	4.3	2,557	158	648	291	663	151	4,202	167	304	6.7
MI	3,848	7.2	2,673	131	268	151	237	246	3,419	91	429	11.1
WI	2,056	10.3	1,342	50	277	81	175	101	1,822	38	234	11.4
W.N.C.	7,465	9.0	5,175	211	569	253	711	478	6,720	145	744	10.0
MN	1,848	14.6	1,231	69	115	45	276	91	1,648	34	201	10.9
IA	1,144	1.1	853	18	87	41	77	57	1,064	16	79	6.9
MO	2,199	10.6	1,490	57	212	85	172	164	1,961	48	238	10.8
ND	276	6.8	173	10	21	12	30	27	241	5	35	12.8
SD	292	5.6	202	5	19	10	22	31	259	8	33	11.4
NE	661	5.7	479	16	40	25	59	37	602	11	58	8.8
KS	1,044	9.3	747	35	74	35	75	71	945	24	99	9.5
South	36,065	22.6	22,007	1,725	2,349	1,724	4,088	3,835	31,822	1,524	4,243	11.8
S.A.	18,719	27.4	10,607	1,260	1,269	978	2,352	2,095	16,503	675	2,216	11.8
DE	290	15.5	156	40	14	10	33	35	247	6	42	14.6
MD	1,892	20.4	939	393	104	106	294	43	1,749	53	143	7.6
DC	278	0.5	35	71	31	21	118	-	250	21	29	10.4
VA	2,496	23.5	1,532	216	144	136	287	159	2,292	65	205	8.2
WV	781	4.5	546	11	46	20	29	119	689	13	93	11.9
NC	2,818	23.9	1,830	74	178	131	151	430	2,517	73	301	10.7
SC	1,424	23.4	898	34	92	67	80	241	1,258	51	166	11.7
GA	2,638	30.1	1,639	73	198	168	233	305	2,367	96	272	10.3
FL	6,100	39.3	3,033	336	462	321	1,128	763	5,135	298	965	15.8
E.S.C.	6,214	13.1	4,213	130	408	260	406	735	5,652	192	562	9.0
KY	1,507	10.1	1,011	25	109	65	98	185	1,380	36	127	8.4
TN	2,026	15.9	1,358	55	146	93	166	189	1,864	51	172	8.5
AL	1,670	13.8	1,134	32	96	66	102	224	1,507	53	164	9.8
MS	1,010	10.8	710	17	57	36	41	137	911	53	99	9.8
W.S.C.	11,132	20.6	7,187	345	673	485	1,310	1,006	9,668	657	1,465	13.2
AR	1,001	11.4	709	18	61	27	44	132	891	33	109	10.9
LA	1,716	10.8	1,084	79	152	59	125	196	1,499	89	217	12.6
OK	1,406	13.7	1,005	33	69	56	100	130	1,206	40	200	14.2
TX	7,009	26.3	4,389	215	391	343	1,041	548	6,071	495	938	13.6
West	20,895	22.3	11,905	1,242	1,645	1,113	3,166	1,589	18,935	1,732	1,960	9.4
Mt	5,864	29.3	3,422	300	398	231	751	691	5,033	271	831	14.2
MT	361	10.0	238	8	29	10	17	54	306	9	55	15.2
ID	413	10.2	286	9	29	12	17	57	361	15	53	12.7
WY	203	8.1	129	6	16	6	10	33	169	5	35	17.0
CO	1,477	23.7	884	87	90	64	249	89	1,282	38	195	13.2
NM	632	24.5	388	28	39	16	48	103	543	43	89	14.1
AZ	1,659	49.4	868	110	88	61	257	251	1,369	102	291	17.5
UT	598	22.1	393	24	58	21	62	35	537	30	61	10.2
NV	519	52.6	236	27	50	41	90	70	466	30	53	10.1
Pac	15,031	19.8	8,483	942	1,246	882	2,415	898	13,902	1,481	1,129	7.5
WA	2,032	20.3	1,273	48	139	91	275	188	1,872	73	160	7.9
OR	1,194	10.2	764	32	86	47	118	134	1,103	40	90	7.6
CA	11,183	20.5	6,119	812	966	706	1,900	555	10,381	1,275	802	7.2
AK	233	42.9	124	16	30	16	21	20	189	16	44	18.8
HI	390	16.6	203	34	24	22	100	(Z)	356	57	34	8.6

- Represents zero. Z Less than 500 units.

Source: U.S. Bureau of the Census, 1990 Census of Housing, General Housing Characteristics, series CH-1, forthcoming, and Census of Population and Housing, 1990: Summary Tape File 1C on CD-ROM.

Construction and Housing

No. 1224. Occupied Housing Units—Tenure, by Race of Householder: 1920 to 1990

[In thousands, except as indicated. As of April 1. Prior to 1960, excludes Alaska and Hawaii. Statistics on the number of occupied units are essentially comparable although identified by various terms—the term "family" applies to figures for 1920 and 1930; "occupied dwelling unit," 1940 and 1950; and "occupied housing unit," 1960 to 1990. For 1920, includes the small number of quasifamilies; for 1930, represents private families only. See also *Historical Statistics, Colonial Times to 1970*, series N 238-245.]

RACE OF HOUSEHOLDER AND TENURE	1920	1930	1940	1950	1960	1970	1980	1990
ALL RACES								
Occupied units, total	24,352	29,905	34,855	42,826	53,024	63,445	80,390	91,947
Owner occupied	11,114	14,280	15,196	23,560	32,797	39,886	51,795	59,025
Percent of occupied	45.6	47.8	43.6	55.0	61.9	62.9	64.4	64.2
Renter occupied	13,238	15,624	19,659	19,266	20,227	23,580	28,595	32,923
WHITE								
Occupied units, total	21,826	26,983	31,561	39,044	47,880	56,606	68,810	76,880
Owner occupied	10,511	13,544	14,418	22,241	30,823	37,005	46,671	52,433
Percent of occupied	48.2	50.2	45.7	57.0	64.4	65.4	67.8	68.2
Renter occupied	11,315	13,439	17,143	16,803	17,057	19,601	22,139	24,447
BLACK AND OTHER								
Occupied units, total	2,526	2,922	3,293	3,783	5,144	6,839	11,580	15,067
Owner occupied	603	737	778	1,319	1,974	2,881	5,124	6,592
Percent of occupied	23.9	25.2	23.6	34.9	38.4	42.1	44.2	43.8
Renter occupied	1,923	2,185	2,516	2,464	3,170	3,959	6,456	8,475

Source: U.S. Bureau of the Census, *Census of Housing: 1960*, vol. 1; *1970, vol. 1; 1980 Census of Housing*, vol. 1, chapter A (HC80-1-A); and *1990 Census of Housing, General Housing Characteristics*, series CH-90-1, forthcoming reports.

No. 1225. Occupied Housing Units—Tenure, by Race and Hispanic Origin of Householder: 1980 and 1990

[As of April 1. Based on the Census of Population and Housing; see Appendix III]

RACE AND HISPANIC ORIGIN OF HOUSEHOLDER	ALL HOUSEHOLDS			OWNER OCCUPIED		PERCENT OWNER OCCUPIED		RENTER OCCUPIED	
	1980 (1,000)	1990 (1,000)	Percent change, 1980-1990	1980	1990	1980	1990	1980	1990
				1980	1990				
Total units	80,389,673	91,947,410	14.4	51,794,545	59,024,811	64.4	64.2	28,595,128	32,922,599
White	68,810,123	76,880,105	11.7	46,670,775	52,432,648	67.8	68.2	22,139,348	24,447,457
Black	8,381,666	9,976,161	19.0	3,724,251	4,327,265	44.4	43.4	4,657,417	5,648,896
American Indian, Eskimo, or Aleut	397,252	591,372	48.9	212,209	318,001	53.4	53.8	185,043	273,371
Asian or Pacific Islander	993,458	2,013,735	102.7	521,230	1,050,182	52.5	52.2	472,228	963,553
Other race	1,807,172	2,486,037	37.6	666,080	896,715	36.9	36.1	1,141,092	1,589,322
Hispanic origin ¹	4,007,896	6,001,718	49.7	1,738,920	2,545,584	43.4	42.4	2,268,976	3,456,134

¹ Persons of Hispanic origin may be of any race.

U.S. Bureau of the Census, *1980 Census of Housing*, vol. 1, chapter A (HC80-1-A); and *1990 Census of Housing, General Housing Characteristics*, series CH-1, forthcoming reports.

No. 1226. Occupied Housing Units—Tenure, by Age of Householder: 1980 and 1990

[As of April 1]

AGE OF HOUSEHOLDER	OWNER OCCUPIED				RENTER OCCUPIED			
	Number (1,000)		Percent		Number (1,000)		Percent	
	1980	1990	1980	1990	1980	1990	1980	1990
Total units	51,797	59,024	64.4	64.2	28,594	32,922	35.6	35.8
15 to 24 years old	1,459	862	22.1	17.1	5,137	4,187	77.9	82.9
25 to 34 years old	9,439	9,000	51.6	45.3	8,844	10,849	48.4	54.7
35 to 44 years old	9,895	13,503	71.2	66.2	3,997	6,890	28.8	33.8
45 to 54 years old	¹ 19,563	10,774	77.3	75.3	¹ 5,744	3,529	122.7	24.7
55 to 64 years old	(¹)	9,864	(¹)	79.7	(¹)	2,515	(¹)	20.3
65 to 74 years old	² 11,441	9,072	² 70.1	78.8	² 4,872	2,445	² 29.9	21.2
75 years old and over	(²)	5,949	(²)	70.4	(²)	2,507	(²)	29.6

¹ Householders age 55 to 64 years old are included with householders 45 to 54 years. ² Householders age 75 years old and over are included with householders 65 to 74 years old.

U.S. Bureau of the Census, *1980 Census of Housing*, vol. 1, chapter A (HC80-1-A); and *1990 Census of Housing, General Housing Characteristics*, series CH-1, forthcoming reports.

No. 1227. Occupied Housing Units—Housing Value and Contract Rent, by Region: 1990

[Specified owner-occupied units are limited to one-unit structures on less than 10 acres and no business on property. Specified renter-occupied units exclude one-unit on 10 acres or more. Based on the American Housing Survey; see Appendix III.]

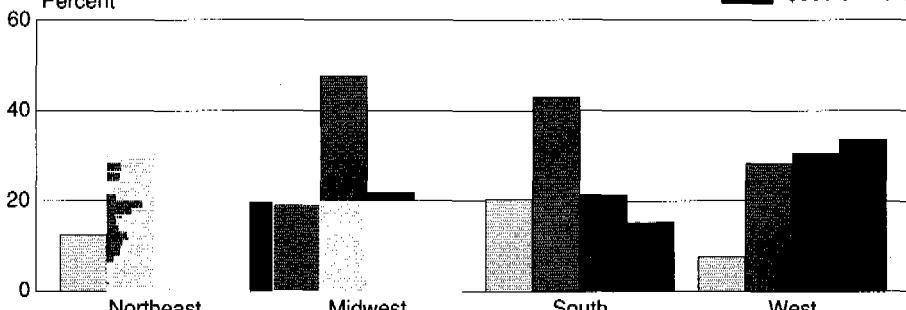
CATEGORY	NUMBER (1,000)					PERCENT DISTRIBUTION				
	Total units	North-east	Mid-west	South	West	Total units	North-east	Mid-west	South	West
VALUE										
Specified owner-occupied units	44,918.0	8,762.9	11,794.7	15,595.6	8,764.8	100.0	100.0	100.0	100.0	100.0
Less than \$15,000	1,177.0	114.8	412.0	583.6	66.6	2.6	1.3	3.5	3.7	0.8
\$15,000 to \$19,999	761.0	85.8	293.1	343.5	38.6	1.7	1.0	2.5	2.2	0.4
\$20,000 to \$24,999	1,018.8	118.2	392.2	451.2	57.2	2.3	1.3	3.3	2.9	0.7
\$25,000 to \$29,999	1,232.9	137.5	475.9	544.8	74.7	2.7	1.6	4.0	3.5	0.9
\$30,000 to \$34,999	1,572.0	168.5	597.5	698.1	107.9	3.5	1.9	5.1	4.5	1.2
\$35,000 to \$39,999	1,737.5	172.9	642.2	787.2	135.1	3.9	2.0	5.4	5.0	1.5
\$40,000 to \$44,999	1,985.6	202.0	717.8	887.9	178.0	4.4	2.3	6.1	5.7	2.0
\$45,000 to \$49,999	1,917.7	187.4	683.0	844.2	203.2	4.3	2.1	5.8	5.4	2.3
\$50,000 to \$59,999	3,940.0	410.5	1,361.4	1,673.5	494.6	8.8	4.7	11.5	10.7	5.6
\$60,000 to \$74,999	5,959.6	703.8	1,923.1	2,440.9	891.9	13.3	8.0	16.3	15.7	10.2
\$75,000 to \$99,999	7,057.8	1,162.6	1,961.0	2,639.2	1,295.0	15.7	13.3	16.6	16.9	14.8
\$100,000 to \$124,999	3,808.2	941.1	873.3	1,188.4	805.3	8.5	10.7	7.4	7.6	9.2
\$125,000 to \$149,999	2,965.1	944.5	534.9	789.4	696.3	6.6	10.8	4.5	5.1	7.9
\$150,000 to \$174,999	2,316.2	886.8	312.4	507.5	609.5	5.2	10.1	2.6	3.3	7.0
\$175,000 to \$199,999	1,701.0	688.3	181.4	315.2	516.1	3.8	7.9	1.5	2.0	5.9
\$200,000 to \$249,999	2,084.3	776.4	187.8	354.6	765.4	4.6	8.9	1.6	2.3	8.7
\$250,000 to \$299,999	1,292.6	416.7	96.1	203.5	576.3	2.9	4.8	0.8	1.3	6.6
\$300,000 to \$399,999	1,206.8	344.1	78.7	176.8	607.2	2.7	3.9	0.7	1.1	6.9
\$400,000 to \$499,999	501.3	131.1	31.1	70.1	269.2	1.1	1.5	0.3	0.4	3.1
\$500,000 and over	682.5	169.8	39.8	96.2	376.7	1.5	1.9	0.3	0.6	4.3
Median value (dol.)	\$79,100	\$124,400	\$62,500	\$66,000	\$126,200	(X)	(X)	(X)	(X)	(X)
CONTRACT RENT										
Specified renter-occupied units	31,966.8	7,193.3	6,807.2	10,378.1	7,588.1	100.0	100.0	100.0	100.0	100.0
Less than \$100	1,406.0	191.3	351.0	732.4	131.2	4.4	2.7	5.2	7.1	1.7
\$100 to \$149	1,557.8	366.3	398.8	605.1	187.5	4.9	5.1	5.9	5.8	2.5
\$150 to \$199	1,961.7	346.4	566.8	779.3	269.2	6.1	4.8	8.3	7.5	3.5
\$200 to \$249	2,552.7	437.2	750.5	1,014.2	350.9	8.0	6.1	11.0	9.8	4.6
\$250 to \$299	3,046.8	485.0	878.3	1,180.7	502.9	9.5	6.7	12.9	11.4	6.6
\$300 to \$349	3,214.0	595.9	842.3	1,158.5	613.7	10.1	8.3	12.4	11.2	8.1
\$350 to \$399	3,189.3	630.1	776.4	1,104.3	678.5	10.0	8.8	11.4	10.6	8.9
\$400 to \$449	2,709.6	659.1	582.1	823.9	644.5	8.5	9.2	8.6	7.9	8.5
\$450 to \$499	2,212.2	561.6	424.5	628.4	597.8	6.9	7.8	6.2	6.1	7.9
\$500 to \$549	1,903.1	568.2	297.8	459.8	577.3	6.0	7.9	4.4	4.4	7.6
\$550 to \$599	1,404.0	400.0	193.9	318.9	491.2	4.4	5.6	2.8	3.1	6.5
\$600 to \$649	1,231.7	402.9	138.3	246.5	444.0	3.9	5.6	2.0	2.4	5.9
\$650 to \$699	942.2	290.1	90.4	178.3	383.4	2.9	4.0	1.3	1.7	5.1
\$700 to \$749	707.3	235.5	60.1	119.5	292.2	2.2	3.3	0.9	1.2	3.9
\$750 to \$999	1,626.6	498.2	117.9	246.3	764.2	5.1	6.9	1.7	2.4	10.1
\$1,000 or more	825.5	276.4	54.9	122.0	372.2	2.6	3.8	0.8	1.2	4.9
No cash rent	1,476.2	245.5	283.2	660.0	287.5	4.6	3.4	4.2	6.4	3.8
Median contract rent (dol.)	\$374	\$432	\$319	\$324	\$473	(X)	(X)	(X)	(X)	(X)

X Not applicable.

Source: U.S. Bureau of the Census, 1990 Census of Housing, *General Housing Characteristics*, series CH-1, forthcoming.

**Figure 26.1
Occupied Housing Units-Contract Rent,
by Region: 1990**

Percent



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1227.

Construction and Housing

No. 1228. Occupied Housing Units—

[In thousands of units, except as indicated. As of April.]

STATE	Total housing units	SPECIFIED OWNER OCCUPIED UNITS							Lower quartile value ¹ (dol.)	Median (dol.)	Upper quartile value ¹ (dol.)			
		Value categories												
		Less than \$50,000	\$50,000 to \$99,999	\$100,000 to \$149,000	\$150,000 to \$199,000	\$200,000 to \$299,000	\$300,000 or more							
United States . . .	44,918.0	11,402.5	16,957.5	6,773.3	4,017.2	3,376.9	2,390.7	49,500	79,100	137,800				
Alabama . . .	753.8	343.9	310.7	62.5	20.1	11.3	5.4	35,500	53,700	78,800				
Alaska . . .	77.5	11.0	31.9	23.0	7.5	3.2	0.9	68,400	94,400	128,500				
Arizona . . .	668.7	98.7	372.7	118.8	40.6	23.9	14.0	59,800	80,100	109,900				
Arkansas . . .	427.7	235.6	156.9	23.3	6.8	3.5	1.6	31,100	46,300	68,700				
California . . .	4,690.3	119.0	636.6	812.1	851.5	1,151.0	1,120.0	127,100	195,500	294,800				
Colorado . . .	637.6	84.1	363.1	122.8	37.4	19.9	10.3	62,500	82,700	109,700				
Connecticut . . .	643.5	4.6	36.7	165.3	188.0	150.3	98.5	139,000	177,800	246,000				
Delaware . . .	137.5	11.8	56.8	36.5	15.6	10.5	4.3	74,800	100,100	143,900				
District of Columbia . . .	71.5	1.7	25.2	15.0	6.9	8.4	14.4	86,700	123,900	258,700				
Florida . . .	2,378.2	433.1	1,239.1	381.9	151.5	100.6	72.0	56,100	77,100	112,200				
Georgia . . .	1,138.8	314.5	531.2	163.2	66.9	39.9	23.1	47,300	71,300	102,100				
Hawaii . . .	144.4	3.3	13.1	16.7	21.1	39.7	50.5	156,800	245,300	358,800				
Idaho . . .	177.3	66.8	89.4	14.2	3.7	2.0	1.2	42,100	58,200	79,700				
Illinois . . .	2,084.7	525.1	786.6	403.2	183.7	114.5	71.6	49,800	80,900	128,300				
Indiana . . .	1,137.8	514.3	484.0	92.8	27.0	13.7	6.0	36,500	53,900	78,200				
Iowa . . .	566.6	317.8	209.7	27.7	7.0	3.3	1.1	30,200	45,900	65,900				
Kansas . . .	500.6	238.0	199.6	41.1	12.3	6.4	3.1	32,400	52,200	78,000				
Kentucky . . .	662.2	326.9	260.5	47.5	15.9	8.0	3.4	33,400	50,500	73,400				
Louisiana . . .	733.9	289.1	344.5	63.0	19.8	11.5	6.1	38,200	58,500	83,000				
Maine . . .	214.7	37.5	95.2	49.3	18.0	10.0	4.7	60,100	87,400	123,300				
Maryland . . .	970.9	87.3	300.9	274.2	139.6	103.3	65.6	79,000	116,500	169,300				
Massachusetts . . .	1,004.6	9.5	93.5	310.8	298.3	196.4	98.1	126,800	162,800	216,000				
Michigan . . .	1,916.1	737.2	814.5	219.2	79.3	46.0	20.0	38,500	60,600	90,600				
Minnesota . . .	894.3	204.9	482.3	138.2	38.6	21.1	9.2	52,200	74,000	98,200				
Mississippi . . .	441.8	249.3	156.1	24.2	7.0	3.6	1.6	31,400	45,600	67,800				
Missouri . . .	1,005.4	385.1	452.6	102.0	33.6	20.3	11.9	38,800	59,800	87,100				
Montana . . .	132.4	52.3	68.3	8.4	2.1	1.0	0.3	40,000	56,600	74,200				
Nebraska . . .	314.4	155.3	132.4	18.5	4.7	2.4	1.0	32,800	50,400	70,400				
Nevada . . .	183.8	8.4	93.3	51.3	16.0	9.1	5.6	75,400	95,700	128,400				
New Hampshire . . .	199.4	6.3	45.6	79.9	39.9	21.1	6.6	98,400	129,400	167,600				
New Jersey . . .	1,466.3	45.5	241.4	348.8	367.3	301.5	161.9	112,300	162,300	225,000				
New Mexico . . .	262.3	73.5	128.2	37.3	12.8	7.2	3.3	46,700	70,100	97,800				
New York . . .	2,387.6	243.8	674.4	431.6	439.0	381.0	217.8	76,200	131,600	200,400				
North Carolina . . .	1,218.0	382.8	575.7	155.2	56.3	33.1	15.0	44,700	65,800	94,900				
North Dakota . . .	103.7	50.6	46.3	5.1	1.1	0.5	0.1	30,800	50,800	70,000				
Ohio . . .	2,241.3	734.0	1,102.8	260.5	80.8	42.9	20.3	43,900	63,500	90,200				
Oklahoma . . .	616.3	323.7	235.6	36.8	10.9	6.1	3.3	30,800	48,100	71,000				
Oregon . . .	511.8	133.3	281.2	62.7	19.5	10.5	4.7	49,200	67,100	92,600				
Pennsylvania . . .	2,581.3	829.2	1,017.8	395.9	180.6	109.1	48.7	42,500	69,700	109,500				
Rhode Island . . .	176.5	3.0	31.0	78.4	35.6	19.4	9.0	106,000	133,500	171,800				
South Carolina . . .	615.4	225.7	280.1	63.5	23.7	14.8	7.6	41,100	61,100	89,100				
South Dakota . . .	113.1	64.2	42.4	4.6	1.0	0.5	0.2	27,300	45,200	64,500				
Tennessee . . .	938.4	371.8	416.4	91.5	32.2	17.8	8.7	39,600	58,400	85,300				
Texas . . .	2,949.1	1,151.2	1,261.1	314.8	111.3	66.5	44.2	38,300	58,600	89,200				
Utah . . .	303.7	61.1	188.6	35.2	10.6	5.7	2.5	53,100	68,900	92,000				
Vermont . . .	89.2	7.9	41.3	25.5	8.4	4.4	1.7	73,100	95,500	130,000				
Virginia . . .	1,192.1	206.7	466.2	203.9	132.8	116.5	66.0	60,100	91,000	155,800				
Washington . . .	896.4	124.0	371.3	192.7	101.0	67.8	39.6	63,700	93,400	145,400				
West Virginia . . .	350.1	195.3	136.8	18.9	5.4	2.8	0.9	31,200	47,900	69,400				
Wisconsin . . .	916.7	287.2	492.2	95.3	24.7	12.3	5.1	45,600	62,500	86,100				
Wyoming . . .	78.4	25.9	43.8	6.2	1.5	0.7	0.4	43,900	61,600	82,100				

¹ This measure divides the distribution of value and rent categories into four equal parts. The lower quartile value is the value that defines the upper limit of the lowest one-quarter of the cases. The upper quartile value defines the lower limit of the upper one-quarter of the cases in the distribution.

Housing Value and Contract Rent, by State: 1990

Based on the Census of Population and Housing; see appendix III]

Total housing units	SPECIFIED RENTER OCCUPIED UNITS					Lower quartile value ¹ (dol.)	Median (dol.)	Upper quartile value ¹ (dol.)	STATE
	Rent categories								
	Less than \$250	\$250 to \$499	\$500 to \$749	\$750 to \$999	\$1,000 or more				
30,490.5	7,478.2	14,371.9	6,188.4	1,626.6	825.5	252	374	527	United States
386.2	214.4	155.0	14.4	1.6	0.8	136	229	326	Alabama
70.6	5.8	29.2	23.8	8.5	3.4	377	503	666	Alaska
456.9	73.9	290.5	76.5	10.5	5.6	288	370	473	Arizona
227.6	129.5	90.5	6.2	0.9	0.6	154	230	310	Arkansas
4,400.1	330.3	1,385.0	1,692.5	668.5	323.8	414	561	728	California
452.9	88.7	271.3	76.5	10.9	5.3	271	362	472	Colorado
401.3	56.7	135.1	152.1	38.2	19.1	366	510	648	Connecticut
68.2	12.7	36.0	16.7	1.8	1.0	304	425	518	Delaware
148.6	23.9	65.5	37.6	12.7	8.8	317	441	618	District of Columbia
1,591.5	261.3	892.4	355.6	49.4	32.7	302	402	515	Florida
759.5	251.8	362.0	127.4	13.1	5.1	202	344	466	Georgia
139.3	15.1	36.8	43.8	25.2	18.4	401	599	837	Hawaii
92.9	43.0	44.1	4.6	0.9	0.3	184	261	348	Idaho
1,416.3	352.3	703.8	283.2	53.5	23.4	251	369	503	Illinois
554.7	204.4	310.1	33.4	4.4	2.3	210	291	380	Indiana
268.4	125.1	129.1	12.3	1.3	0.6	182	261	350	Iowa
270.8	108.0	136.0	22.4	2.7	1.6	196	285	385	Kansas
351.2	175.3	160.4	12.9	1.5	1.1	163	250	335	Kentucky
452.1	211.8	213.9	21.8	3.2	1.5	167	260	346	Louisiana
123.0	30.2	68.6	21.4	1.9	0.8	252	358	468	Maine
574.1	88.1	223.0	196.8	51.0	15.2	321	473	635	Maryland
879.2	164.9	265.6	308.2	98.6	41.9	323	506	668	Massachusetts
925.3	233.0	536.9	128.9	17.8	8.7	249	343	450	Michigan
431.3	104.0	217.4	93.6	12.8	3.5	255	384	503	Minnesota
214.3	126.9	80.1	6.2	0.6	0.4	123	215	313	Mississippi
548.6	223.9	275.8	40.8	5.3	2.8	189	282	384	Missouri
85.5	42.4	40.3	2.4	0.2	0.2	175	251	332	Montana
174.1	69.6	91.6	11.0	1.2	0.7	194	282	375	Nebraska
202.8	19.1	111.1	62.9	7.6	2.1	361	445	552	Nevada
121.8	14.7	52.0	45.1	7.8	2.2	363	479	600	New Hampshire
942.1	106.6	321.8	381.9	92.5	39.3	381	521	657	New Jersey
157.1	49.8	88.3	16.1	2.0	1.0	220	312	406	New Mexico
3,059.9	529.1	1,387.2	764.7	223.1	155.8	302	428	596	New York
709.7	286.2	360.7	52.0	4.9	3.9	190	284	386	North Carolina
69.8	31.4	35.6	2.5	0.2	0.1	178	266	349	North Dakota
1,231.5	431.2	692.2	87.8	11.5	8.8	212	296	388	Ohio
341.1	159.7	162.6	15.6	2.0	1.2	184	259	345	Oklahoma
378.5	82.4	241.8	44.5	6.4	3.4	262	344	433	Oregon
1,216.4	397.0	601.6	174.4	28.8	14.6	217	322	447	Pennsylvania
146.3	30.7	69.4	38.5	5.7	2.1	286	416	535	Rhode Island
332.5	145.1	161.6	21.7	2.7	1.3	174	276	379	South Carolina
72.8	38.1	31.4	3.0	0.3	0.1	155	242	339	South Dakota
524.2	229.0	260.1	29.4	3.7	2.0	176	273	370	Tennessee
2,192.6	573.8	1,321.2	240.0	36.4	21.2	245	328	423	Texas
161.6	46.3	101.2	11.3	2.1	0.7	237	300	383	Utah
57.8	11.2	34.1	10.4	1.5	0.6	280	378	481	Vermont
698.8	150.6	297.4	165.4	60.4	25.0	271	411	596	Virginia
655.7	122.1	373.6	130.9	21.3	7.8	280	383	497	Washington
146.1	88.9	53.4	3.3	0.3	0.2	151	221	295	West Virginia
560.5	146.2	343.6	61.5	6.8	2.3	245	331	425	Wisconsin
46.7	20.0	24.1	2.4	0.2	0.1	198	270	353	Wyoming

Source: U.S. Bureau of the Census, 1990 Census of Housing, General Housing Characteristics, series CH-1, forthcoming, and Census of Population and Housing, 1990: Summary Tape File 1C on CD-ROM.

No. 1229. Occupied Housing Units—Housing Value and Contract Rent in Constant (1990) Dollars, by State: 1970 to 1990

[As of April 1. Constant dollar figures were calculated using the Consumer Price Index for "All items"; see tables 738 and 740]

STATE	MEDIAN VALUE					MEDIAN CONTRACT RENT				
	1970 (dol.)	1980 (dol.)	1990 (dol.)	Percent change		1970 (dol.)	1980 (dol.)	1990 (dol.)	Percent change	
				1970- 1980	1980- 1990				1970- 1980	1980- 1990
U.S.	53,800	75,000	79,100	39.4	5.5	282	314	374	11.3	18.1
AL....	38,600	53,800	53,700	39.4	-0.2	152	189	229	24.3	21.2
AK....	71,800	121,200	94,400	68.8	-22.1	541	540	503	-0.2	-6.9
AZ....	51,600	87,000	80,100	68.6	-7.9	285	360	370	26.3	2.8
AR....	33,200	49,400	46,300	48.8	-6.3	168	202	230	20.2	13.9
CA....	73,100	134,200	195,500	83.6	45.7	358	402	561	12.3	39.6
CO....	54,800	101,800	82,700	85.8	-18.8	307	354	362	15.3	2.3
CT....	80,700	104,200	177,800	29.1	70.6	332	322	510	-3.0	58.4
DE....	54,100	70,500	100,100	30.3	42.0	282	321	425	13.8	32.4
DC....	67,400	109,300	123,900	62.2	13.4	348	329	441	-5.5	34.0
FL....	47,500	71,600	77,100	50.7	7.7	291	330	402	13.4	21.8
GA....	46,200	58,600	71,300	26.8	21.7	206	243	344	18.0	41.6
HI....	111,100	187,500	245,300	68.8	30.8	380	430	599	13.2	39.3
ID....	44,600	72,400	58,200	62.3	-19.6	222	272	261	22.5	-4.0
IL....	62,700	83,800	80,900	33.7	-3.5	339	319	369	-5.9	15.7
IN....	43,700	59,100	53,900	35.2	-8.8	260	264	291	1.5	10.2
IA....	44,000	64,500	45,900	46.6	-28.8	244	278	261	13.9	-6.1
KS....	38,300	60,000	52,200	56.7	-13.0	237	267	285	12.7	6.7
KY....	39,900	54,300	50,500	36.1	-7.0	199	240	250	20.6	4.2
LA....	46,200	68,300	58,500	47.8	-14.3	196	248	260	26.5	4.8
ME....	40,500	60,200	87,400	48.6	45.2	218	273	358	25.2	31.1
MD....	59,200	92,600	116,500	56.4	25.8	348	353	473	1.4	34.0
MA....	65,200	76,900	162,800	17.9	111.7	282	313	506	11.0	61.7
MI....	55,400	61,900	60,600	11.7	-2.1	294	311	343	5.8	10.3
MN....	57,000	84,300	74,000	47.9	-12.2	320	337	384	5.3	13.9
MS....	35,400	49,900	45,600	41.0	-8.6	146	173	215	18.5	24.3
MO....	45,600	58,300	59,800	27.9	2.6	234	243	282	3.8	16.0
MT....	44,300	73,800	56,600	66.6	-23.3	225	262	251	16.4	-4.2
NE....	39,200	60,300	50,400	53.8	-16.4	244	270	282	10.7	4.4
NV....	70,900	109,100	95,700	53.9	-12.3	389	426	445	9.5	4.5
NH....	51,900	76,200	129,400	46.8	69.8	250	326	479	30.4	46.9
NJ....	74,100	95,600	162,300	29.0	69.8	351	369	521	2.3	45.1
NM....	41,100	71,900	70,100	74.9	-2.5	228	281	312	23.2	11.0
NY....	71,200	72,400	131,600	1.7	81.8	301	333	428	10.6	28.5
NC....	40,500	57,200	65,800	41.2	15.0	187	213	284	13.9	33.3
ND....	41,100	69,700	50,800	69.6	-27.1	244	278	266	13.9	-4.3
OH....	55,700	71,300	63,500	28.0	-10.9	263	265	296	0.8	11.7
OK....	35,100	56,500	48,100	61.0	-14.9	203	260	259	28.1	-0.4
OR....	48,700	90,400	67,100	85.6	-25.8	272	337	344	23.9	2.1
PA....	43,000	62,100	69,700	44.4	12.2	231	275	322	19.0	17.1
RI....	57,600	74,300	133,500	29.0	79.7	206	251	416	21.8	65.7
SC....	41,100	55,700	61,100	35.5	9.7	158	206	276	30.4	34.0
SD....	36,100	58,100	45,200	60.9	-22.2	218	235	242	7.8	3.0
TN....	39,600	56,500	58,400	42.7	3.4	196	235	273	19.9	16.2
TX....	38,000	62,100	59,600	63.4	-4.0	241	338	328	40.2	-3.0
UT....	53,200	91,000	68,900	71.1	-24.3	253	297	300	17.4	1.0
VT....	51,900	67,000	95,500	29.1	42.5	241	276	378	14.5	37.0
VA....	54,100	76,200	91,000	40.9	19.4	291	329	411	13.1	24.9
WA....	59,600	95,100	93,400	62.3	-1.8	298	348	383	16.8	10.1
WV....	35,800	61,100	47,900	70.7	-21.6	165	216	221	30.9	2.3
WI....	54,800	77,200	62,500	40.9	-19.0	288	294	331	2.1	12.6
WY....	48,400	95,000	61,600	96.3	-35.2	228	345	270	51.3	-21.7

Source: U.S. Bureau of the Census, 1990 Housing Highlights, series CH-S-1-1 - 52.

No. 1230. Housing Units—Summary of Characteristics and Equipment, by Tenure and Region: 1987

[In thousands of units, except as indicated. Based on the American Housing Survey; see Appendix III. For composition of regions, see table 25]

ITEM	Total housing units	Seasonal	YEAR-ROUND UNITS								Vacant	
			Occupied									
			Total	Owner	Renter	North-east	Mid-west	South	West			
Total units	102,652	2,837	90,888	58,164	32,724	18,953	22,267	31,270	18,397	8,927		
Percent distribution	100.0	2.8	88.5	56.7	31.9	20.9	24.5	34.4	20.2	8.7		
Units in structure:												
Single family detached	61,775	1,741	56,559	48,162	8,397	9,644	15,097	20,694	11,125	3,475		
Single family attached	5,496	74	4,820	2,456	2,364	1,378	878	1,619	944	602		
2 to 4 units	10,987	156	9,472	1,872	7,601	3,265	2,297	2,172	1,739	1,359		
5 to 9 units	5,358	63	4,533	325	4,209	988	973	1,469	1,103	761		
10 to 19 units	4,766	57	3,948	279	3,669	767	780	1,487	914	761		
20 to 49 units	3,625	63	2,936	256	2,680	895	553	629	859	626		
50 or more units	3,957	79	3,352	544	2,808	1,520	642	617	573	526		
Mobile home or trailer	6,688	604	5,267	4,270	997	496	1,048	2,583	1,140	817		
Stories in structure: ¹												
1 story	2,643	42	2,241	243	1,999	114	309	1,109	709	360		
2 stories	8,407	108	6,877	664	6,213	729	909	2,963	2,277	1,422		
3 stories	7,034	97	6,018	1,185	4,834	2,397	2,046	882	693	919		
4 to 6 stories	8,073	132	6,930	818	6,112	2,837	1,679	1,095	1,319	1,012		
7 or more stories	2,537	40	2,175	367	1,808	1,358	301	325	190	321		
Foundation:												
Full or partial basement	30,711	369	29,049	25,392	3,657	9,526	12,150	4,679	2,695	1,292		
Crawlspac	18,356	666	16,196	12,684	3,512	540	2,268	8,736	4,653	1,494		
Concrete slab	16,402	403	14,868	11,651	3,217	843	1,347	8,178	4,500	1,130		
Other	1,802	375	1,265	891	375	114	210	720	221	161		
Year structure built: ²												
1939 and earlier	24,104	575	21,215	12,110	9,105	7,735	6,793	4,233	2,455	2,314		
1940 to 1949	9,028	340	7,945	4,997	2,948	1,692	1,816	2,789	1,647	753		
1950 to 1959	14,249	367	13,056	9,559	3,497	2,730	3,367	4,162	2,797	825		
1960 to 1969	16,768	473	15,136	10,110	5,025	2,594	3,475	5,641	3,425	1,160		
1970 to 1979	24,825	749	21,829	13,777	8,054	2,868	4,894	8,764	5,304	2,246		
1980 or later	13,668	334	11,706	7,611	4,095	1,335	1,922	5,681	2,768	1,627		
Median year	1962	1963	1962	1962	1962	1950	1958	1968	1967	1965		
Main heating equipment:												
Warm-air furnace	54,929	818	49,854	35,049	14,805	6,770	16,059	17,341	9,684	4,258		
Electric heat pump	4,361	118	3,688	2,809	878	222	339	2,621	506	556		
Steam or hot water system	15,102	100	13,855	7,190	6,665	9,456	2,785	915	699	1,147		
Floor, wall, or pipeless furnace	6,059	103	5,450	2,583	2,867	207	424	1,701	3,118	506		
Built-in electric units	7,255	329	6,092	2,873	3,220	1,352	1,280	1,724	1,736	833		
Room heaters with flue	3,331	276	2,629	1,403	1,226	217	475	1,505	432	426		
Room heaters without flue	2,741	36	2,346	1,313	1,033	30	51	2,157	98	359		
Stoves	4,501	427	3,762	2,895	867	546	626	1,690	900	312		
Fireplaces	1,377	145	1,150	971	178	47	102	512	489	83		
None	1,297	389	659	282	377	14	21	202	422	249		
Portable elec. heaters	820	71	671	320	351	8	26	442	194	79		
Other	879	27	732	476	256	85	78	449	120	120		
Air conditioning:												
Central	36,752	529	33,006	23,378	9,628	2,526	7,929	17,484	5,067	3,217		
Percent of total units	35.8	16.6	36.3	40.2	29.4	13.3	35.6	55.9	27.5	36.0		
1 or more room units	28,220	369	26,547	16,885	9,660	7,551	6,988	9,058	2,948	1,305		
Source of water:												
Public system or private company	86,952	1,376	77,944	47,446	30,498	16,097	18,361	26,347	17,139	7,631		
Percent of total units	84.7	48.5	85.8	81.6	93.2	84.9	82.5	84.3	93.2	85.5		
Well serving 1 to 5 units	14,232	941	12,183	10,145	2,038	2,696	3,759	4,558	1,170	1,109		
Other	1,468	520	761	573	188	160	148	365	88	187		
Means of sewage disposal:												
Public sewer	77,130	975	69,345	40,150	29,195	14,672	17,431	21,770	15,472	6,811		
Percent of total units	75.1	34.4	76.3	69.0	89.2	77.4	78.3	69.6	84.1	76.3		
Septic tank, cesspool, chemical toilet	24,769	1,537	21,281	17,886	3,395	4,255	4,817	9,302	2,908	1,951		
Other	752	325	262	128	134	26	20	198	18	165		

¹ Limited to multiunit structures in 1987. ² For mobile home, oldest category is 1939 or earlier.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

Heating Equipment

No. 1231. Heating Equipment and Fuels for Occupied Units: 1950 to 1990

[Based on the Census of Population and Housing; see Appendix III]

ITEM	NUMBER (1,000)					PERCENT DISTRIBUTION				
	1950	1960	1970	1980	1990	1950	1960	1970	1980	1990
Occupied units, total	42,826	53,024	63,445	80,390	91,947	100.0	100.0	100.0	100.0	100.0
Heating equipment:										
Warm air furnace	11,508	17,378	27,515	39,279	(NA)	126.9	32.8	43.4	48.9	(NA)
Heat pumps	(NA)	(NA)	(NA)	2,835	(NA)	(NA)	(NA)	(NA)	3.5	(NA)
Steam or hot water	10,071	11,990	13,211	13,859	(NA)	23.5	22.6	20.8	17.2	(NA)
Floor, wall, or pipeless furnace	(1)	6,098	5,552	4,693	(NA)	(1)	11.5	8.8	5.8	(NA)
Built-in electric units		664	3,236	6,370	(NA)		1.3	5.1	7.9	(NA)
Room heaters with flue	215,399	211,183	7,209	6,098	(NA)	236.0	221.1	11.4	7.6	(NA)
Room heaters without flue	5,268	5,218	3,558	2,736	(NA)	12.3	9.8	5.6	3.4	(NA)
Fireplaces, stoves, portable heaters or other	(2)	(2)	2,766	3,977	(NA)	(2)	(2)	4.4	4.9	(NA)
None	581	503	398	541	(NA)	1.4	0.9	0.6	0.7	(NA)
House heating fuel:										
Utility gas	11,387	22,851	35,014	42,658	46,851	26.6	43.1	55.2	53.1	51.0
Fuel oil, kerosene, etc.	9,686	17,158	16,473	14,655	11,244	22.6	32.4	26.0	18.2	12.2
Electricity	283	933	4,876	14,768	23,697	0.7	1.8	7.7	18.3	25.8
Bottled, tank, or LP gas	787	2,686	3,807	4,535	5,243	1.8	5.1	6.0	5.6	5.7
Wood and other fuel	4,855	2,460	1,060	2,729	4,009	11.3	4.6	1.7	3.4	4.4
Coal or coke	14,828	6,456	1,821	504	359	34.6	12.2	2.9	0.6	0.4
None	999	478	395	541	544	2.3	0.9	0.6	0.7	0.6
Cooking fuel:										
Electricity	6,403	16,351	25,768	41,906	(NA)	15.0	30.8	40.6	52.1	(NA)
Gas	25,501	33,787	36,558	37,944	(NA)	59.6	63.7	57.6	47.2	(NA)
Other fuel	10,796	2,603	908	398	(NA)	25.2	4.9	1.4	0.5	(NA)
None	124	280	213	142	(NA)	0.3	0.5	0.3	0.2	(NA)

- Represents zero. NA Not available. ¹ "Floor, wall, or pipeless furnace" included in "Warm air furnace." ² "Fireplaces, stoves, or portable heaters" included in "Room heaters with flue." ³ Includes utility, bottled, tank, and LP gas.

Source: U.S. Bureau of the Census, *Census of Housing, 1960*, vol. 1, and *1980*, vol. 1; *1990, 1990 Census of Population and Housing*, CPH-L-80.

No. 1232. Appliances Used by Households, by Region and Family Income: 1987

[In millions, except percent. As of November. Represents appliances possessed and generally used by the household. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see table 25]

TYPE OF APPLIANCE	HOUSEHOLDS USING APPLIANCE		REGION				FAMILY INCOME IN 1987			
	Number	Percent of total	North-east	Midwest	South	West	Under \$15,000	\$15,000-\$24,999	\$25,000-\$34,999	\$35,000 and over
Total households . . .	90.5	100.0	19.0	22.3	30.9	18.3	30.3	17.8	16.2	26.3
Air conditioners: Room	26.9	29.8	7.4	7.9	9.2	2.4	10.1	6.0	4.6	6.2
Central system ¹	30.7	33.9	3.0	7.2	16.2	4.3	5.9	5.2	6.4	13.2
Clothes washer	67.8	74.9	13.8	17.1	23.8	13.1	18.4	13.0	12.7	23.7
Clothes dryer	59.6	65.8	11.3	16.2	20.1	12.0	13.5	11.5	11.7	23.0
Dehumidifier	9.0	10.0	2.9	4.7	1.3	0.1	1.4	1.5	2.2	4.0
Dishwasher	39.0	43.1	7.4	7.6	14.0	10.0	5.1	6.5	8.4	19.1
Evaporative cooler ²	3.0	3.4	-	0.1	0.6	2.3	1.3	0.6	0.5	0.7
Freezer	30.8	34.0	4.8	9.2	11.3	5.4	8.8	5.2	5.8	10.9
Humidifier	13.2	14.6	2.8	7.2	2.3	1.0	2.7	2.6	2.6	5.3
Microwave oven ³	55.0	60.8	9.8	14.9	18.7	11.7	12.1	10.8	10.9	21.2
Motor vehicles: ⁴ One	30.8	34.0	6.3	7.5	11.2	5.7	15.0	7.4	4.7	3.7
Two or more	48.6	53.7	8.9	12.3	16.4	11.0	6.6	9.0	10.8	22.2
Outdoor gas grill	18.3	20.2	4.6	5.4	5.2	3.2	2.1	3.0	3.6	9.6
Outdoor gas light	1.3	1.4	0.1	0.4	0.6	0.1	0.2	0.3	0.2	0.5
Oven: Electric	51.2	56.6	9.3	11.5	20.1	10.4	13.9	10.2	10.2	17.0
Gas	37.1	40.9	9.4	10.3	9.9	7.4	15.3	6.9	5.9	9.0
Portable electric heater	9.0	10.0	1.2	2.1	3.5	2.3	3.8	1.9	1.4	2.0
Portable kerosene heater	5.3	5.8	1.0	1.3	2.8	0.2	1.8	1.0	1.1	1.4
Range: Electric	51.4	56.8	8.0	11.6	20.4	10.3	14.1	10.3	10.1	16.9
Gas	38.7	42.7	9.8	10.7	10.2	8.0	15.9	7.4	6.0	9.4
Refrigerator: Frost-free	60.9	67.3	11.0	14.5	22.9	12.5	15.8	11.9	11.6	21.6
Nonfrost-free ⁵	29.4	32.5	8.0	7.6	7.9	5.9	14.3	5.9	4.6	4.7
Television set: Color	83.9	92.7	17.9	20.7	28.4	17.0	25.7	16.6	15.7	25.9
Black and white	32.4	35.8	7.1	8.8	10.8	5.6	11.0	5.7	5.7	10.0
Water heater: ⁶ Gas	42.1	46.5	7.0	13.1	11.7	10.3	13.1	7.5	7.4	14.1
Electric	30.5	33.7	4.0	5.6	16.1	4.8	10.0	6.6	5.8	8.2
Other fuel	3.6	4.0	2.9	0.1	0.2	0.4	0.5	0.6	0.6	1.8
Whole house cooling fan	8.6	9.5	1.5	2.4	3.6	1.1	1.7	1.3	1.6	3.9
Window or ceiling fan	41.8	46.2	7.8	10.3	17.9	5.8	12.0	8.3	8.0	13.5

- Represents zero. ¹ Includes the .9 million households with both Central air conditioning and window or wall air conditioning units. ² An air-cooling unit used in dry climates that turns air into moist, cool air by saturating the air with water vapor.

³ Microwave is first or second most used oven. ⁴ All motorized vehicles used by U.S. households for personal transportation excluding motorcycles, mopeds, large trucks, and buses. ⁵ Includes refrigerators without freezer compartments.

⁶ Excludes water heaters that serve more than one household.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey, 1987*.

No. 1233. Expenditures by Residential Property Owners for Improvements and Maintenance and Repairs, by Type of Property and Activity: 1970 to 1990

[In millions of dollars]

YEAR AND TYPE OF EXPENDITURE	Total	1-unit properties with owner occupant	Other properties	ADDITIONS AND ALTERATIONS				Major replacements	Maintenance and repairs		
				Total	To structures		To property outside of structures				
					Additions	Alterations					
1970.....	14,770	9,469	5,301	6,246	1,411	3,539	1,296	2,629	5,895		
1975.....	25,239	15,684	9,556	10,997	1,971	6,844	2,182	4,484	9,758		
1976.....	29,034	18,854	10,180	12,314	3,493	6,367	2,454	5,341	11,379		
1977.....	31,280	21,761	9,519	14,237	2,655	8,505	3,077	5,699	11,344		
1978.....	37,461	24,189	13,272	16,458	3,713	8,443	4,302	8,094	12,909		
1979.....	42,231	28,280	13,951	18,285	3,280	9,642	5,363	8,996	14,950		
1980.....	46,338	31,481	14,857	21,336	4,183	11,193	5,960	9,816	15,187		
1981.....	46,851	30,201	16,150	20,414	3,164	11,947	5,303	9,915	16,022		
1982.....	45,291	29,779	15,512	18,774	2,641	10,711	5,423	9,707	16,810		
1983.....	49,295	32,524	16,771	20,271	4,739	11,673	3,859	10,895	18,128		
1984.....	69,784	43,781	26,003	27,822	6,007	14,486	7,329	13,067	28,894		
1985.....	80,267	47,742	32,525	28,775	3,966	17,599	7,211	16,134	35,358		
1986.....	91,274	54,298	36,976	38,608	7,377	21,192	10,040	16,695	35,971		
1987.....	94,082	54,791	39,291	39,978	9,557	21,641	8,779	15,875	38,229		
1988, total¹	101,117	60,822	40,295	43,339	11,333	22,703	9,303	16,893	40,885		
Heating and air-conditioning ²	7,460	4,820	2,622	1,357	(NA)	1,357	(NA)	3,352	2,751		
Plumbing.....	8,610	4,414	4,198	1,619	(NA)	1,619	(NA)	2,968	4,024		
Roofing.....	6,665	3,317	3,348	(NA)	(NA)	(NA)	(NA)	4,799	1,866		
Painting.....	12,467	6,159	6,308	(NA)	(NA)	(NA)	(NA)	12,467			
1989, total¹	100,891	59,858	41,033	39,786	6,828	23,129	9,828	18,415	42,689		
Heating and air-conditioning ²	5,841	3,589	2,252	1,484	(NA)	1,484	(NA)	2,167	2,191		
Plumbing.....	9,875	5,258	4,617	1,607	(NA)	1,607	(NA)	3,314	4,954		
Roofing.....	10,075	6,266	3,809	(NA)	(NA)	(NA)	(NA)	6,299	3,777		
Painting.....	11,319	5,192	6,127	(NA)	(NA)	(NA)	(NA)	(NA)	11,319		
1990, total¹	106,773	59,583	47,090	37,253	8,561	21,920	6,771	18,215	51,305		
Heating and air-conditioning ²	7,646	4,920	2,726	1,634	(NA)	1,634	(NA)	3,394	2,618		
Plumbing.....	10,838	5,842	4,996	1,867	(NA)	1,867	(NA)	3,382	5,589		
Roofing.....	7,914	4,159	3,755	(NA)	(NA)	(NA)	(NA)	4,508	3,406		
Painting.....	13,768	5,260	8,508	(NA)	(NA)	(NA)	(NA)	(NA)	13,768		

NA Not available. ¹ Includes types of expenditures not separately specified. ² Central air-conditioning.Source: U.S. Bureau of the Census, *Current Construction Reports*, series C50.

No. 1234. Vacancy Rates for Housing Units—Characteristics: 1985 to 1991

[In percent. Annual averages. Based on Current Population Survey and Quarterly Household Survey. Rate is relationship between vacant housing for rent or for sale and the total rental and homeowner supply, which comprises occupied units, units rented or sold and awaiting occupancy, and vacant units available. For composition of regions, see fig. I, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series N 249-258.]

CHARACTERISTIC	RENTAL UNITS					HOMEOWNER UNITS				
	1985	1988	1989	1990	1991	1985	1988	1989	1990	1991
Total units.....	6.5	7.7	7.4	7.2	7.4	1.7	1.6	1.8	1.7	1.7
Inside MSA's.....	6.3	7.8	7.4	7.1	7.5	1.7	1.6	1.7	1.7	1.7
Outside MSA's.....	7.1	7.3	7.7	7.6	7.3	1.9	1.6	1.9	1.8	1.8
Northeast.....	3.5	4.8	4.7	6.1	6.9	1.0	1.6	1.5	1.6	1.5
Midwest.....	5.9	6.9	6.8	6.4	6.7	1.6	1.2	1.4	1.3	1.3
South.....	9.1	10.1	9.7	8.8	8.9	2.1	1.9	2.2	2.1	2.2
West.....	6.2	7.7	7.1	6.6	6.5	2.1	1.6	1.6	1.8	1.7
Units in structure:										
One unit.....	3.8	3.6	4.2	4.0	3.9	1.4	1.3	1.4	1.4	1.4
Two units or more.....	7.9	9.8	9.2	9.0	9.4	6.6	6.1	7.1	7.1	6.8
Five units or more.....	8.8	11.4	10.1	9.6	10.4	10.1	9.7	9.6	8.4	7.9
Units with—										
Three rooms or less.....	8.8	10.6	10.3	10.3	10.8	5.8	5.6	10.8	10.2	10.5
Four rooms.....	6.9	8.7	8.2	8.0	8.1	2.3	2.6	3.1	3.2	3.0
Five rooms.....	5.0	5.3	5.6	5.7	5.9	2.0	1.6	2	2.0	1.9
Six rooms or more.....	3.2	3.3	3.4	3.0	3.1	1.4	1.2	1.2	1.1	1.2

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-111.

No. 1235. Recent Home Buyers—General Characteristics: 1976 to 1990

[As of October. Based on a sample survey; subject to sampling variability]

ITEM	Unit	1976	1980	1984	1985	1986	1987	1988	1989	1990
Median purchase price	Dollars	43,340	68,714	89,400	90,400	93,680	99,260	121,910	129,800	131,200
First-time buyers	Dollars	37,670	61,450	81,500	75,100	74,700	84,730	97,100	105,200	106,000
Repeat buyers	Dollars	50,090	75,750	100,400	106,200	114,860	115,430	141,400	144,700	149,400
Average monthly mortgage payment	Dollars	329	599	868	896	852	939	1,008	1,054	1,127
Percent of income	Percent	24.0	32.4	30.3	30.0	28.6	29.3	32.8	31.8	33.8
Percent buying—										
New houses	Percent	15.1	22.4	22.3	23.8	25.7	23.8	26.2	21.8	21.2
Existing houses	Percent	84.9	77.6	77.7	76.2	74.3	76.2	73.8	78.2	78.8
Single-family houses	Percent	88.8	82.4	89.9	87.0	85.1	87.3	83.3	84.8	83.8
Condominiums ¹	Percent	11.2	17.6	10.1	10.6	14.2	12.5	12.4	13.5	13.1
For the first time	Percent	44.8	32.9	37.7	36.6	35.5	36.8	37.8	40.2	41.9
Average age:										
First-time buyers	Years	28.1	28.3	29.1	28.4	30.9	29.6	30.3	29.6	30.5
Repeat buyers	Years	35.9	36.4	37.8	38.4	39.5	39.1	38.9	39.4	39.1
Downpayment/sales price	Percent	25.2	28.0	20.9	24.8	23.4	27.2	24.0	24.4	23.3
First-time buyers	Percent	18.0	20.5	13.2	11.4	13.4	20.4	14.6	15.8	15.7
Repeat buyers ¹	Percent	30.8	32.7	25.6	32.7	28.9	31.3	29.7	30.3	28.9

¹ Buyers who previously owned a home. ² Includes multiple-family houses.Source: Chicago Title Insurance Company, Chicago, IL, *The Guarantor*, bimonthly, (copyright).**No. 1236. Low-Income Public Housing Units, by Progress Stage: 1960 to 1988**[In thousands. As of Dec. 31. Housing for the elderly intended for persons 62 years old or over, disabled, or handicapped. Includes Puerto Rico and Virgin Islands. Covers units subsidized by HUD under annual contributions contracts. See also *Historical Statistics, Colonial Times to 1970*, series N 186-191.]

YEAR	Total ¹	Occupied units ²	Under construction	YEAR	Total ¹	Occupied units ²	Under construction
1960.	593.3	478.2	36.4	1985.	1,378.0	1,344.6	9.6
Elderly	18.9	1.1	4.1	Elderly	373.5	361.1	2.1
1970.	1,155.3	893.5	126.8	1987.	1,443.0	1,406.4	9.7
Elderly	249.4	143.4	65.7	Elderly	378.6	374.2	1.3
1980.	1,321.1	1,195.6	20.9	1988.	1,448.8	1,413.3	9.7
Elderly	358.3	317.7	11.5	Elderly	382.5	374.7	1.4

¹ Includes units to be constructed or to go directly "under management" because no rehabilitation needed, not shown separately. ² Under management or available for occupancy.

Source: U.S. Dept. of Housing and Urban Development, unpublished data.

No. 1237. Office Buildings—Vacancy Rates for Major Cities, 1980 to 1991, and Status of Supply, 1991

[As of December; except 1991, as of June. Excludes government owned and occupied, owner-occupied, and medical office buildings]

CITY	VACANCY RATE FOR EXISTING SPACE (percent)								SUPPLY STATUS, JUNE 1991 (mil. sq. ft.)				
	1980	1984	1985	1986	1987	1988	1989	1990	1991, June	Existing space		Space under construction	
										Total	Available for lease	Total	Available for lease
Total ¹	4.6	15.5	16.9	18.6	19.0	18.6	19.5	20.0	20.0	2,236.6	447.1	47.6	33.3
Atlanta, GA	10.0	14.5	21.0	20.1	19.6	18.3	19.9	19.1	18.3	83.1	15.2	3.5	2.1
Baltimore, MD	7.2	11.9	11.5	15.9	15.8	13.4	16.4	20.0	17.6	32.2	5.7	1.2	0.9
Boston, MA	3.8	8.9	13.1	13.0	12.6	14.1	15.3	19.6	19.3	131.4	25.3	2.1	2.0
Charlotte, NC	(NA)	16.7	16.7	15.5	15.1	16.5	14.3	16.5	16.5	17.1	2.8	1.7	1.0
Chicago, IL	7.0	14.8	16.5	19.6	17.0	15.9	17.0	18.6	19.6	191.8	37.5	5.4	3.8
Dallas, TX	8.6	18.7	23.0	30.9	29.1	29.7	26.9	25.8	24.8	113.0	28.0	-	-
Denver, CO	6.6	20.6	24.7	25.1	27.9	27.6	26.1	24.8	23.7	68.6	16.3	-	-
Houston, TX	4.0	25.0	27.6	30.6	31.8	29.2	27.5	24.9	24.0	137.2	33.0	0.6	0.2
Indianapolis, IN	(NA)	(NA)	(NA)	(NA)	(NA)	21.3	20.0	21.2	21.7	20.5	4.4	0.1	0.1
Kansas City, MO	4.2	18.6	16.2	18.2	18.2	19.9	15.8	14.1	16.6	32.4	5.4	0.2	0.1
Los Angeles, CA	0.9	20.4	15.3	13.2	19.0	15.8	19.7	16.8	19.5	198.3	38.7	9.9	7.8
Milwaukee, WI	(NA)	(NA)	(NA)	16.8	19.3	20.4	22.9	17.5	21.2	3.7	0.3	0.3	0.3
New Orleans, LA	(NA)	22.4	21.8	25.5	24.3	25.6	25.7	29.0	26.9	23.3	6.3	-	-
New York, NY ²	3.1	6.8	7.9	8.9	9.7	11.5	15.1	16.0	17.0	224.3	38.1	2.2	1.7
Philadelphia, PA	6.3	9.0	14.5	15.5	16.5	15.8	16.3	18.2	17.5	70.5	12.3	2.2	1.1
Pittsburgh, PA	1.2	14.2	(NA)	12.0	12.3	17.6	16.3	16.3	14.7	36.2	5.3	0.8	0.8
San Diego, CA	(NA)	21.8	24.7	25.4	22.8	20.1	17.6	19.5	22.7	38.5	8.7	0.8	0.6
San Francisco, CA	0.4	9.0	13.7	16.6	15.0	15.5	15.7	14.7	15.2	56.1	8.5	-	-
Seattle, WA	(NA)	(NA)	(NA)	(NA)	(NA)	13.2	12.4	12.3	12.3	29.7	3.6	0.5	0.2
St. Louis, MO	(NA)	(NA)	(NA)	(NA)	(NA)	15.6	18.4	22.6	21.0	21.6	33.1	7.2	-
Washington, DC	2.5	9.6	9.0	13.6	13.4	14.4	19.0	18.5	17.6	32.6	4.6	3.2	3.2

¹ Represents zero. NA Not available. ² Includes other cities not shown separately. In 1990, 49 cities were covered.² Refers to Manhattan.Source: ONCOR International, Houston, TX, 1980-1985, *National Office Market Report*, semi-annual; thereafter, *International Office Market Report*, semi-annual, (copyright).

No. 1238. Commercial Office Space—Inventory and Vacancy Rates for the 50 Largest Metropolitan Areas: 1991

[As of December 31. Central business district is the area located near the historical urban core, commonly associated with the traditional government and financial districts in most cities; outside the central business districts is comprised of the suburban area and "urban clusters" with areas of high office space concentrations. Class A space is in "excellent" locations, with high quality finish, well maintained, an professionally managed; Class B space is in "good" locations, professionally managed, with fairly high quality construction and tenancy. Data based on responses from individuals knowledgeable in the local markets]

METROPOLITAN AREAS RANKED BY POPULATION-SIZE, 1990 ¹	INVENTORY (1,000 square feet)				VACANCY RATE ² (percent)			
	Inside central business district		Outside central business district		Inside central business district		Outside central business district	
	Class A	Class B	Class A	Class B	Class A	Class B	Class A	Class B
Los Angeles-Long Beach, CA PMSA	17,578.7	6,726.3	36,573.8	24,473.2	17.6	22.9	17.8	20.2
New York, NY PMSA	251,537.0	109,737.2	7,200.0	12,400.0	16.5	20.0	14.3	22.1
Chicago, IL PMSA	47,147.1	44,939.0	24,680.0	31,786.3	18.0	18.7	20.2	21.5
Philadelphia, PA-NJ PMSA	31,184.9	6,764.5	49,212.1	23,815.8	13.5	14.3	17.2	23.1
Detroit, MI PMSA	6,489.7	7,036.8	21,432.1	25,021.4	11.5	12.2	20.1	21.3
Washington, DC-MD-VA MSA	92,500.0	-	167,200.0	-	15.4	-	20.9	-
Boston, MA NECMA	35,000.0	11,000.0	45,000.0	(NA)	18.3	20.9	21.1	(NA)
Houston, TX PMSA	25,205.7	9,155.6	33,744.6	67,112.8	13.6	30.6	13.8	30.6
Atlanta, GA MSA	321,126.5	(³)	359,212.3	(³)	³ 17.3	(³)	³ 16.4	(³)
Nassau-Suffolk, NY PMSA	-	-	22,365.0	13,419.0	-	-	20.1	20.8
Riverside-San Bernardino, CA PMSA	2,872.0	3,300.1	182.3	1,125.2	37.7	28.8	29.6	24.7
Dallas, TX PMSA	13,059.0	16,816.0	48,491.0	40,953.0	16.4	34.9	22.1	28.3
San Diego, CA MSA	5,824.4	3,614.8	21,812.2	10,703.8	19.0	19.0	20.8	17.0
Minneapolis-St. Paul, MN-WI MSA	10,756.3	4,607.5	8,308.8	20,053.3	16.2	18.2	20.2	20.7
St. Louis, MO-IL MSA	7,023.3	6,113.3	21,096.8	(NA)	21.1	36.0	14.7	(NA)
Anaheim-Santa Ana, CA PMSA	52,359.6	(NA)	(NA)	(NA)	19.3	(NA)	(NA)	(NA)
Baltimore, MD MSA	6,967.5	5,101.1	11,610.1	4,918.7	14.5	28.4	19.1	15.6
Phoenix, AZ MSA	17,225.7	(NA)	20,949.5	(NA)	22.7	(NA)	28.3	(NA)
Oakland, CA PMSA	10,771.3	1,753.1	21,052.6	2,919.7	13.8	20.1	17.8	19.0
Tampa-St.Petersburg-Clearwater, FL MSA	4,321.6	1,274.0	7,346.1	6,340.3	18.7	41.8	16.0	15.5
Seattle, WA PMSA	22,844.3	4,503.7	8,961.9	5,322.6	13.1	15.1	11.0	16.4
Miami-Hialeah, FL PMSA	7,200.0	4,700.0	5,400.0	12,200.0	31.9	35.1	22.2	16.4
Cleveland, OH PMSA	10,949.4	10,327.7	10,176.5	2,608.5	18.7	16.8	19.6	18.4
Newark, NJ PMSA ⁴	-	-	24,040.0	23,795.0	-	-	16.1	23.1
Denver, CO PMSA	12,286.2	9,391.3	7,292.2	26,554.4	16.3	24.1	14.3	20.5
San Francisco, CA PMSA	30,771.0	17,726.0	3,086.0	6,864.0	15.0	17.4	16.6	16.8
Kansas City, MO-KS MSA	5,240.0	6,000.0	13,210.0	6,800.0	8.6	18.5	11.0	14.5
Sacramento, CA MSA	4,500.0	3,300.0	10,000.0	12,000.0	6.7	6.1	8.0	24.2
Cincinnati, OH-KY-IN PMSA	6,774.9	7,148.2	5,411.0	3,840.1	19.1	17.7	18.0	21.8
Milwaukee, WI PMSA	5,324.7	7,603.9	3,725.6	8,121.4	14.6	15.4	14.7	19.8
Norfolk-Virginia Beach-Newport News, VA MSA	2,317.6	1,491.1	3,844.5	7,206.0	13.5	21.1	19.5	14.7
Columbus, OH MSA	4,500.0	3,400.0	5,183.7	5,000.0	9.3	11.6	14.0	14.4
San Antonio, TX MSA	2,043.0	3,223.0	4,982.0	9,828.5	22.9	38.6	20.3	28.4
Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA	2,373.2	552.0	3,018.5	7,707.2	22.4	22.0	25.0	24.4
Indianapolis, IN MSA	6,514.8	2,191.5	³ 12,291.2	(³)	19.2	26.4	³ 23.4	(³)
Portland, OR PMSA	7,617.1	1,873.4	3,267.3	3,033.5	14.1	19.5	11.1	15.0
New Orleans, LA MSA	9,452.8	6,095.0	2,220.7	2,699.4	24.6	34.7	18.9	15.6
Charlotte-Gastonia-Rock Hill, NC-SC MSA	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Orlando, FL MSA	3,705.0	2,055.1	4,037.3	12,806.3	13.9	21.2	12.9	15.2
Salt Lake City-Ogden, UT MSA	3,400.0	2,500.0	1,700.0	2,000.0	14.7	14.0	11.8	17.5
Nashville, TN MSA	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Memphis, TN-AR-MS MSA	1,947.9	3,438.0	8,548.0	2,631.0	7.4	32.8	12.9	16.0
Buffalo, NY PMSA	2,948.4	1,769.5	848.6	1,160.2	20.4	18.6	8.5	12.2
Oklahoma City, OK MSA	3,351.0	2,480.0	4,901.0	3,679.0	29.9	48.6	10.2	26.4
Dayton-Springfield, OH MSA	1,961.9	1,252.8	1,921.0	1,543.9	21.9	28.7	16.9	12.5
Greensboro-Winston-Salem-High Point, NC MSA	1,473.0	830.0	2,000.0	285.0	16.0	24.1	15.8	28.1
Birmingham, AL MSA	2,832.9	1,980.0	4,031.3	3,570.5	17.4	33.4	12.5	20.1
Jacksonville, FL MSA	4,914.3	2,168.0	3,411.5	3,107.5	21.5	28.5	14.2	18.1
Albany-Schenectady-Troy, NY MSA	1,447.0	2,845.8	3,443.7	2,956.2	8.6	10.4	6.6	14.9

¹ Represents zero. NA Not available. ² List excludes San Jose, CA MSA; Fort Worth-Arlington, TX PMSA; Bergen-Passaic, NJ PMSA; Rochester, NY MSA; Middlesex-Somerset-Hunterdon, NJ PMSA; Monmouth-Ocean, NJ PMSA; and Louisville, KY-IN MSA. ³ Represents the total vacant space divided by the total inventory of space in that area. ⁴ Class A includes Class B; data not available separately. ⁵ Data are for area identified by source as New Jersey-Central with a market area of Hunterdon, Mercer, Middlesex, Monmouth, Somerset, and Union counties.

Source: Society of Industrial and Office REALTORS, Washington, DC, 1992 Guide to Industrial and Office Real Estate Markets, (copyright).

No. 1239. Commercial Buildings—Selected Characteristics, by Square Footage of Floorspace: 1989

[Excludes buildings 1,000 square feet or smaller. Building type based on predominant activity in which the occupants were engaged. Based on a sample survey of building representatives conducted between January and April 1986; therefore, subject to sampling variability. For composition of regions, see table 25]

CHARACTERISTIC	Number of build- ings (1,000)	FLOORSPACE (mil. sq. ft.)							Mean sq. ft. per building (1,000)	Median sq. ft. per building (1,000)		
		Within all buildings having square footage of—										
		Total	5,000 or less	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 and over				
All buildings	4,528	83,184	6,790	6,532	10,393	8,801	9,130	21,538	14.0	4.5		
Region:												
Northeast	783	13,569	1,047	1,271	1,980	1,722	1,507	6,041	17.3	5.2		
Midwest	1,046	16,955	1,612	1,468	2,250	2,049	2,362	6,215	15.3	4.5		
South	1,847	22,040	2,853	2,530	4,109	3,322	3,632	5,595	11.9	4.0		
West	851	11,620	1,279	1,263	2,054	1,708	1,630	3,686	13.7	4.8		
Year constructed:												
1900 or before	172	1,654	270	299	353	451	(S)	(S)	9.6	4.5		
1901 to 1920	242	4,245	338	399	375	680	729	(S)	17.5	4.8		
1921 to 1945	680	8,098	1,178	928	1,089	994	1,395	2,514	11.9	4.0		
1946 to 1960	868	10,511	1,363	1,233	2,046	1,369	1,191	(S)	12.1	4.1		
1961 to 1970	821	12,167	1,197	1,027	2,064	1,648	1,889	4,343	14.8	4.3		
1970 to 1979	884	13,329	1,266	1,340	2,180	1,884	1,628	5,031	15.1	5.0		
1980 to 1983	317	4,274	465	440	943	480	563	1,385	13.5	4.8		
1984 to 1986	329	5,670	419	541	658	853	924	(S)	17.2	5.4		
1987 to 1989	215	3,235	294	325	485	443	600	1,088	15.1	4.5		
Principal activity within building:												
Assembly	615	6,838	1,006	1,183	1,390	1,230	635	(S)	11.1	5.0		
Education	284	8,148	279	400	892	1,425	1,818	(S)	28.7	9.0		
Food sales	102	792	223	33	177	(S)	(S)	(S)	7.7	4.8		
Food service	241	1,167	417	263	260	(S)	(S)	(S)	4.8	3.0		
Health care	80	2,054	136	(S)	166	(S)	123	1,510	25.7	3.5		
Lodging	140	3,476	123	278	617	469	709	(S)	24.8	8.5		
Mercantile/services	1,278	12,365	2,120	1,753	2,639	1,395	1,378	3,081	9.7	3.9		
Office	679	11,802	961	90	1,721	1,459	1,575	5,267	17.4	4.2		
Parking garage	45	983	55	821	79	(S)	(S)	656	22.0	4.8		
Public order and safety	50	616	73	91	(S)	(S)	(S)	(S)	12.3	4.0		
Warehouse	618	9,253	800	1,031	1,667	1,921	1,369	2,465	15.0	5.8		
Other	62	1,529	63	87	160	128	701	(S)	24.7	6.7		
Vacant	333	4,161	533	440	566	334	530	(S)	12.5	3.7		
Government owned	577	14,342	645	908	1,752	1,892	2,475	6,670	24.8	7.1		
Nongovernment owned	3,951	46,842	6,145	5,624	8,641	6,609	6,655	14,868	12.4	4.2		
Fuels used alone or in combination:												
Electricity	4,297	61,587	6,411	6,302	9,989	8,682	8,918	21,286	14.3	4.6		
Natural gas	2,439	41,593	3,441	3,985	5,793	5,487	6,397	16,489	17.1	5.0		
Fuel oil	586	12,684	832	698	1,499	1,352	1,685	6,618	21.6	5.0		
Propane	348	4,695	587	454	738	461	748	(S)	13.5	4.5		
District heat	105	6,856	43	115	566	512	848	4,772	65.4	19.5		
District chilled water	25	2,101	(S)	32	86	148	282	1,548	84.6	34.5		
Any other	130	1542	206	184	342	138	(S)	(S)	11.9	4.0		
Workers:												
Fewer than 5	2,280	13,292	4,271	2,717	2,841	1,432	727	(S)	5.8	3.0		
5 to 9	906	7,939	1,471	1,606	2,132	1,105	749	(S)	8.8	4.6		
10 to 19	507	6,445	544	1,228	1,921	1,317	828	(S)	12.7	7.5		
20 to 49	381	9,665	167	693	2,330	2,415	2,201	(S)	25.4	16.0		
50 to 99	132	7,389	(S)	(S)	684	1,584	1,919	(S)	56.1	36.5		
100 to 249	79	6,771	(S)	(S)	124	629	2,062	3,924	85.9	69.9		
250 or more	32	9,829	(S)	(S)	(S)	95	394	9,340	308.0	200.1		
Weekly operating hours:												
39 or less	876	6,073	1,574	1,159	1,157	885	634	(S)	6.9	3.5		
40 to 48	1,117	13,905	1,628	1,830	2,628	2,163	2,386	3,269	12.4	5.0		
49 to 60	987	13,473	1,450	1,409	2,614	2,081	1,925	3,995	13.6	5.0		
61 to 84	625	10,777	891	824	1,601	1,235	1,530	4,697	17.2	4.8		
85 to 167	515	9,387	776	680	1,159	1,296	1,272	(S)	18.2	4.5		
168 (open continuously)	408	9,569	472	631	1,235	1,141	1,384	4,707	23.5	5.8		

S Figure does not meet publication standards. ¹ Active solar, coal, wood, and biomass.

Source: U.S. Energy Information Administration, *Commercial Buildings Characteristics, 1989*.

No. 1240. Commercial Buildings—Number and Square Footage of Floorspace, by Type of Building and Characteristic: 1989

[For composition of regions, see table 25]

BUILDING CHARACTERISTICS	All buildings ¹	Assembly	Education	Food sales	Food service	Health care	Lodging	Mercantile/services	Offices	Public order and safety	Warehouse
NUMBER (1,000)											
All buildings.....	4,528	615	284	102	241	80	140	1,278	679	50	618
Region:											
Northeast.....	783	96	38	(S)	54	12	21	259	108	(S)	95
Midwest.....	1,046	134	54	(S)	59	21	24	303	139	(S)	177
South.....	1,847	275	108	45	87	30	50	523	275	(S)	243
West.....	851	109	84	(S)	41	17	44	193	157	(S)	104
Year constructed:											
1900 or before.....	172	53	(S)	(S)	(S)	(S)	(S)	43	27	(S)	(S)
1901 to 1920.....	242	41	14	(S)	(S)	(S)	(S)	61	36	(S)	27
1921 to 1945.....	680	125	32	(S)	34	(S)	17	194	85	(S)	67
1946 to 1960.....	868	138	87	(S)	38	15	18	254	109	(S)	113
1961 to 1970.....	821	82	65	(S)	35	24	36	227	129	(S)	107
1970 to 1979.....	884	97	52	(S)	57	10	32	227	128	(S)	137
1980 to 1983.....	317	32	10	(S)	(S)	(S)	9	78	62	(S)	50
1984 to 1986.....	329	31	14	(S)	(S)	(S)	10	78	71	(S)	74
1987 to 1989.....	215	17	9	(S)	(S)	(S)	(S)	67	39	(S)	35
Government owned.....	577	87	192	(S)	13	9	14	33	70	39	65
Nongovernment owned.....	3,951	528	92	99	228	71	126	1,246	609	(S)	553
FLOORSPACE (mil. sq. ft.)											
All buildings.....	63,184	6,838	8,148	7,921	1,167	2,054	3,476	12,365	11,802	616	9,253
Region:											
Northeast.....	13,569	1,507	1,888	(S)	284	378	549	2,647	2,703	(S)	1,811
Midwest.....	15,955	1,408	2,221	(S)	339	912	982	3,059	2,281	(S)	2,639
South.....	22,040	2,750	2,404	278	370	472	1,215	4,778	3,817	(S)	3,422
West.....	11,620	1,174	1,634	(S)	173	292	730	1,882	3,001	(S)	1,381
Year constructed:											
1900 or before.....	1,654	386	(S)	(S)	(S)	(S)	(S)	428	289	(S)	(S)
1901 to 1920.....	4,245	492	435	(S)	(S)	(S)	(S)	514	552	(S)	348
1921 to 1945.....	8,098	926	1,244	(S)	147	(S)	442	1,322	1,166	(S)	1,448
1946 to 1960.....	10,511	1,470	2,267	(S)	152	371	358	1,694	1,849	(S)	1,279
1961 to 1970.....	12,167	1,249	2,201	(S)	282	365	1,042	2,458	1,736	(S)	1,702
1971 to 1973.....	13,329	1,410	1,391	(S)	268	586	578	3,464	2,425	(S)	2,178
1980 to 1983.....	4,274	373	155	(S)	(S)	(S)	216	873	1,174	(S)	650
1984 to 1986.....	5,670	293	158	(S)	(S)	(S)	510	896	1,860	(S)	1,003
Government owned.....	14,342	1,394	6,312	(S)	109	495	622	399	2,353	575	597
Nongovernment owned.....	48,842	5,443	1,835	787	1,058	1,559	2,854	11,966	9,449	(S)	8,656

S Figure does not meet publication standards. ¹ Includes parking garages, vacant, and other commercial buildings, not shown separately.

Source: U.S. Energy Information Administration, *Commercial Building Characteristics, 1989*.

No. 1241. Commercial Buildings and Workers—Selected Building Characteristics, by Floorspace: 1986

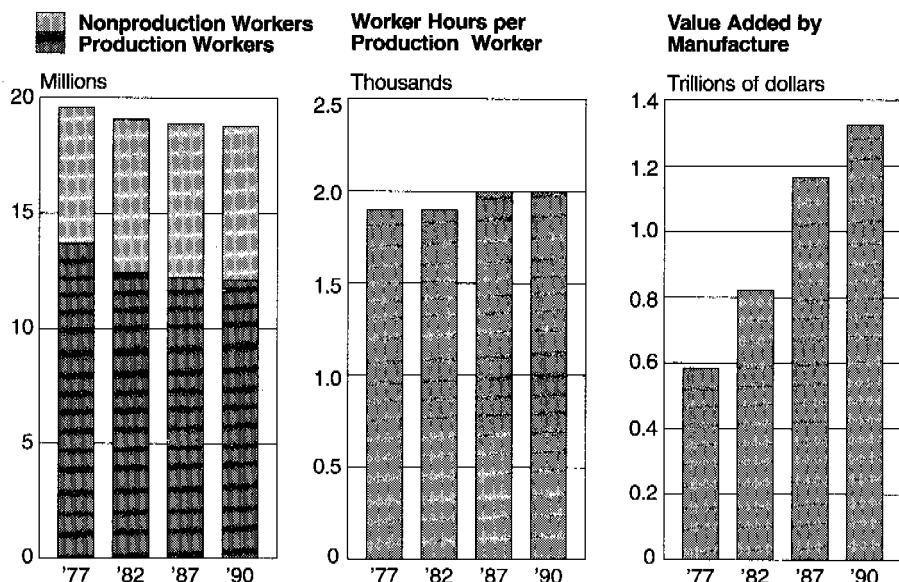
[See headnote, table 1239]

BUILDING CHARACTERISTICS	NUMBER OF BUILDINGS (1,000)						WORKERS			
	Total	Square footage of—					Number (1,000)	Average sq. ft. per worker	Median sq. ft. per worker	
		5,000 or less	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000				
All buildings	4,154	2,220	931	557	242	123	81	73,436	792.9	1,000.9
Region:										
Northeast.....	663	298	183	90	53	21	18	16,183	731.0	1,000.5
Midwest.....	1,096	559	277	147	56	33	24	17,636	909.2	1,251.9
South.....	1,570	905	312	200	83	47	22	25,099	774.0	975.8
West.....	825	458	158	120	51	22	16	14,518	753.4	833.9
Principal activity within building:										
Assembly.....	575	274	138	106	33	16	(S)	4,303	1,705.7	2,901.9
Education.....	241	72	50	44	37	21	(S)	6,833	1,071.5	932.5
Food sales/service.....	303	204	(S)	(S)	(S)	(S)	(S)	5,073	830.8	855.4
Health care.....	52	27	(S)	(S)	6	(S)	4	5,050	417.3	422.7
Lodging.....	137	48	29	31	16	9	(S)	2,277	1,223.2	2,001.3
Mercantile/services.....	1,287	757	309	142	46	23	10	15,870	806.9	900.7
Office.....	614	343	133	74	35	15	15	25,010	381.7	437.9
Public order and safety.....	55	26	(S)	13	(S)	(S)	(S)	1,367	497.8	875.3
Warehouse.....	549	274	123	72	44	21	(S)	5,343	1,683.6	3,001.8
Other.....	103	58	(S)	18	(S)	5	(S)	1,566	1,102.2	1,601.3
Vacant.....	238	136	47	30	15	8	(S)	745	3,933.8	(X)
Nongovernment owned.....	3,661	2,024	828	471	188	94	56	57,505	800.6	1,000.9
Owner occupied.....	2,396	1,338	546	301	120	59	32	35,691	811.5	1,000.9
Nonowner occupied.....	1,265	686	282	170	69	35	23	21,814	783.0	1,033.3
Government owned.....	493	196	104	86	54	29	25	15,931	765.0	1,000.1

S Figure does not meet publication standards. X Not applicable.

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Characteristics of Commercial Buildings, 1986*. Data for 1989 will be forthcoming in late 1992.

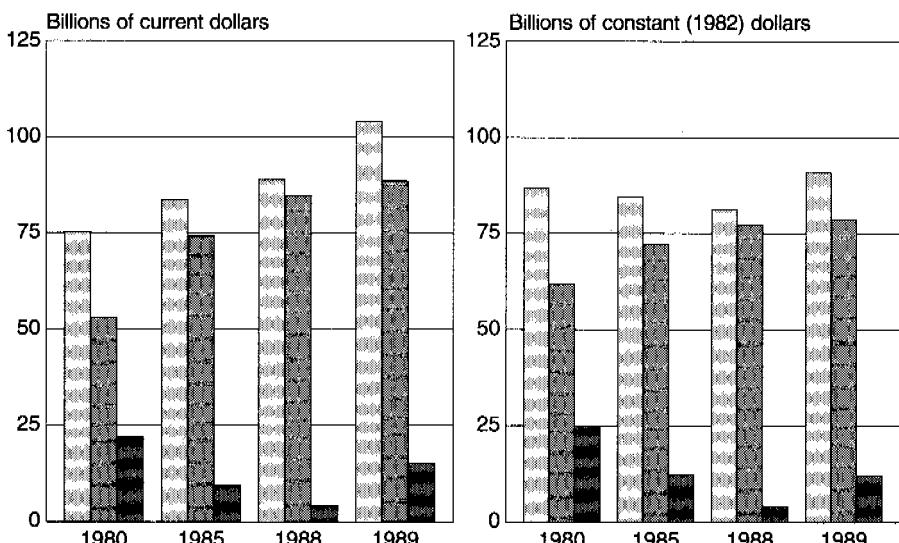
Figure 27.1
Summary of Manufactures: 1977 to 1990



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1243.

Figure 27.2
Capital in Manufacturing Establishments:
1980 to 1989

Purchases
Depreciation
Net investment



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1249.

Manufactures

This section presents summary data for manufacturing as a whole and more detailed information for major industry groups and selected specific products. The types of measures shown at the different levels include data for establishments; employment and wages; raw materials, fuels, and electricity consumed; plant and equipment expenditures; value and quantity of production and shipments; value added by manufacture; inventories; and various indicators of financial status.

The principal sources of these data are Bureau of the Census reports of the censuses of manufactures conducted every 5 years; the *Annual Survey of Manufactures*; and the *Current Industrial Reports* series, which presents monthly, quarterly, or annual data on production, shipments, and stocks for particular commodities. Indexes of industrial production are presented monthly in the Federal Reserve Board's *Federal Reserve Bulletin*. Reports on current activities of industries, or current movements of individual commodities, are compiled by such government agencies as the Bureau of Labor Statistics; the Economic Research Service of the Department of Agriculture; the International Trade Administration; and by private research or trade associations such as The Conference Board, Inc., New York, NY and the American Iron and Steel Institute, Washington, DC.

Data on financial aspects of manufacturing industries are collected by the Bureau of Economic Analysis (BEA) and the Bureau of the Census. Industry aggregates in the form of balance sheets, profit and loss statements, analyses of sales and expenses, lists of subsidiaries, and types and amounts of security issues are published for leading manufacturing corporations registered with the Securities and Exchange Commission. The BEA issues data on capital in manufacturing industries and capacity utilization rates in manufacturing. See also section 17, Business Enterprise, in this edition.

Censuses and annual surveys.—The first census of manufactures covered the year 1809. Between 1809 and 1963, a

In Brief

Revenue from total computer shipments topped \$50 billion in 1991.

Personal computer shipments topped 7 million units in 1991.

1-megabit DRAM chips:

	1965	1990
Revenue (mil. dol.)	5	4,623
Price (dollars)	162.50	6.33

census was conducted at periodic intervals. Since 1967 it has been taken every 5 years (for years ending in "2" and "7"). Census data, either direct reports or estimates from administrative records, are obtained for every manufacturing plant with one paid employee or more.

The *Annual Survey of Manufactures* (ASM), conducted for the first time in 1949, collects data for the years between censuses for the more general measures of manufacturing activity covered in detail by the censuses. The annual survey data are estimates derived from a scientifically selected sample of establishments. The 1990 annual survey is based on a sample of about 55,000 establishments of an approximate total of 200,000. These establishments represent all manufacturing establishments of multiunit companies and all single-establishment manufacturing companies mailed schedules in the 1987 Census of Manufactures. The 1989 through 1993 ASM sample is similar to the previous sample. For the current panel, all establishments of companies with 1987 shipments in manufacturing in excess of \$500 million were included in the survey with certainty. For the remaining portion of the mail survey, the establishment was defined as the sampling unit. For this portion, all establishments with 250 employees or more and establishments with a very large value of shipments also were included. Therefore, of the 55,000 establishments included in the ASM panel, approximately 28,000 are selected with certainty. These establishments account for approximately 80 percent of total value of shipments in the 1987 cen-

sus. Smaller establishments in the remaining portion of the mail survey were selected by sample.

The basic statistical measures of manufacturing activity, such as employment, payrolls, value added, etc., are defined in essentially the same way for both the annual surveys and the census of manufactures. However, the bases for computing average employment vary for different years. For example, beginning with 1949, average employment was calculated from the figures reported for the pay periods ending nearest the 15th of March, May, August, and November; whereas, for 1947 such averages were based on 12 monthly employment figures. In 1967, the average employment calculation was revised to the pay periods which include the 12th of March, May, August, and November to provide data more comparable with other statistical series.

Establishments and classification.—The censuses of manufactures for 1947 through 1987 cover operating manufacturing establishments as defined in the *Standard Industrial Classification Manual (SIC)*, issued by the U.S. Office of Management and Budget (see text, section 13). The *Manual* is also used for classifying establishments in the annual surveys. The comparability of manufactures data over time is affected by changes in the official definitions of industries as presented in the *Manual*. It is important to note, therefore, that the 1987 edition of the *Manual* was used for the 1987 census; and the 1972 edition of the *Manual* and the 1977 *Supplement* was used for the 1972 through 1982 censuses. For the censuses from 1947 to 1963, reports were required from all establishments employing one or more persons at any time during the census year. Beginning with the 1967 census, an effort was made to relieve the very small establishments from the necessity of filing a census report. Approximately 150,000 small single-unit manufacturing firms identified as having less than 20 employees (cutoff varied by industry) benefited from this procedure. Data for these single-unit companies were estimated on the basis of government administrative records and industry averages. Each of the establishments tabulated was classified in one of the approximately 459 manufactur-

ing industries as defined by the *SIC Manual* in 1987. The *Manual* defines an industry as a number of establishments producing a single product or a closely related group of products. In the main, an establishment is classified in a particular industry if its production of a product or product group exceeds in value added its production of any other product group. While some establishments produce only the products of the industry in which they are classified, few within an industry specialize to that extent. The statistics on employment, payrolls, value added, inventories, and expenditures, therefore, reflect both the primary and secondary activities of the establishments in that industry. For this reason, care should be exercised in relating such statistics to the total shipments figures of products primary to the industry.

The censuses for 1947 through 1987 were conducted on an establishment basis. The term "establishment" signifies a single physical plant site or factory. It is not necessarily identical to the business unit or company, which may consist of one or more establishments. A company operating establishments at more than one location is required to submit a separate report for each location. An establishment engaged in distinctly different lines of activity and maintaining separate payroll and inventory records is also required to submit separate reports.

Durable goods.—Items with a normal life expectancy of three years or more. Automobiles, furniture, household appliances, and mobile homes are common examples.

Nondurable goods.—Items which generally last for only a short time (three years or less). Food, beverages, clothing, shoes, and gasoline are common examples.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

No. 1242. Gross National Product in Manufacturing: 1977 to 1989

[In millions of dollars. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

ITEM	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
CURRENT DOLLARS													
Manufacturing	561,018	561,765	565,946	518,752	517,361	515,242	511,820	585,924	643,098	634,648	683,205	771,884	940,656
Durable goods	18,688	19,039	19,573	17,975	15,251	15,277	15,673	16,041	15,110	45,774	478,779	675,539	965,997
Lumber and wood products	22,843	20,823	19,573	17,975	15,251	15,277	15,673	20,179	22,934	24,777	26,916	49,874	507,137
Stone, clay, and glass	19,039	19,039	19,039	19,039	19,039	19,039	19,039	18,160	30,344	36,286	34,803	57,917	25,737
Primary metal industries	40,623	40,623	40,623	40,623	35,138	35,138	35,138	46,017	49,632	46,281	50,053	57,917	43,241
Fabricated metal products	44,765	44,765	44,765	44,765	55,321	55,321	55,321	70,631	86,166	80,005	75,346	85,445	65,325
Machinery, exc. electrical	47,632	47,632	47,632	47,632	49,961	49,961	49,961	54,961	60,895	61,814	67,694	82,193	68,029
Electric and electronic equip	49,890	49,890	49,890	49,890	39,428	39,428	39,428	35,428	26,698	31,539	29,453	82,256	90,461
Motor vehicles and equip	45,440	45,440	45,440	45,440	35,846	35,846	35,846	35,846	18,962	22,280	22,631	26,949	53,505
Instruments and related products	15,120	15,120	15,120	15,120	13,774	13,774	13,774	20,401	21,401	25,724	272,136	23,845	30,541
Nondurable goods	229,198	229,198	229,198	229,198	216,523	216,523	216,523	257,274	257,274	297,572	320,764	30,940	42,002
Food and kindred products	52,198	52,198	47,859	47,859	57,714	57,714	57,714	61,427	64,662	66,648	69,830	75,096	80,863
Tobacco	6,826	6,826	6,826	6,826	6,826	6,826	6,826	7,295	8,916	11,942	12,762	12,556	14,105
Textile mill	14,785	14,785	14,785	14,785	14,942	14,942	14,942	14,962	15,591	14,827	16,935	19,118	14,445
Apparel and other textile	16,040	16,040	16,040	16,040	14,488	14,488	14,488	17,093	18,611	18,931	20,270	20,716	20,217
Paper and allied products	28,810	28,810	28,810	28,810	22,119	22,119	22,119	23,126	25,052	26,718	27,769	31,907	22,476
Printing and publishing	23,356	23,356	23,356	23,356	37,506	37,506	37,506	39,842	44,124	45,475	53,257	59,581	33,523
Chemicals and allied	22,202	22,202	22,202	22,202	15,200	15,200	15,200	15,078	16,757	19,784	24,352	28,260	32,219
Petroleum and coal	14,542	14,542	14,542	14,542	14,542	14,542	14,542	14,542	14,542	14,542	14,542	14,542	14,542
CONSTANT (1982) DOLLARS													
Manufacturing	712,184	694,744	694,755	429,307	433,149	403,195	403,195	673,936	678,555	634,646	674,223	752,407	803,179
Durable goods	408,488	408,488	408,488	19,248	23,665	19,248	19,248	408,606	408,606	362,512	333,817	448,614	482,179
Lumber and wood products	21,329	21,329	21,329	22,574	22,574	22,574	22,574	16,041	16,041	16,041	18,831	20,921	24,824
Stone, clay, and glass	20,187	20,187	20,187	52,825	52,825	48,231	48,231	52,953	53,581	52,953	20,300	21,158	22,847
Primary metal industries	47,867	47,867	47,867	51,534	51,534	53,918	53,918	56,040	56,588	56,051	58,916	58,916	37,750
Fabricated metal products	52,957	52,957	52,957	78,381	78,381	80,915	80,915	80,915	85,584	86,051	84,816	105,663	66,218
Machinery, exc. electrical	64,897	64,897	64,897	60,159	63,160	56,175	56,175	63,160	63,346	64,897	64,559	73,540	124,447
Electric and electronic equip	61,814	61,814	61,814	51,587	51,587	58,988	58,988	35,160	34,755	29,453	37,813	47,315	138,112
Motor vehicles and equip	35,160	35,160	35,160	18,375	20,315	18,375	18,375	22,397	23,922	23,922	23,070	25,157	20,983
Instruments and related products	27,192	27,192	27,192	27,192	27,192	27,192	27,192	26,948	26,948	26,948	26,948	26,948	26,639
Nondurable goods	289,949	289,949	289,949	56,956	59,526	56,956	56,956	61,127	62,063	62,063	64,818	65,592	34,358
Food and kindred products	9,824	9,824	9,824	9,525	9,525	9,525	9,525	9,525	9,525	9,525	9,525	9,525	70,284
Tobacco	16,386	16,386	16,386	17,029	17,029	17,029	17,029	15,956	15,722	14,827	16,230	15,588	17,043
Textile mill	21,538	21,538	21,538	21,538	21,334	21,334	21,334	21,083	20,254	20,254	20,060	15,744	16,747
Apparel and other textile	28,601	28,601	28,601	28,601	28,601	28,601	28,601	25,502	26,718	28,978	30,214	31,579	22,406
Paper and allied products	38,588	38,588	38,588	35,190	36,228	35,190	35,190	55,257	55,257	55,257	59,398	59,057	22,396
Printing and publishing	43,130	43,130	43,130	55,957	55,957	55,957	55,957	55,957	55,957	55,957	64,553	44,723	45,116
Chemicals and allied	71,944	71,944	71,944	52,937	22,937	22,937	22,937	22,937	22,937	22,937	22,937	47,250	44,906
Petroleum and coal	24,931	24,931	24,931	22,673	22,673	23,453	23,453	22,673	22,673	22,673	22,673	22,673	44,906

NA Not available. ¹ Includes industries not shown separately.Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and Survey of Current Business, July issues.

Manufactures

No. 1243. Manufactures—Summary: 1963 to 1990

[For establishment coverage, see text, section 27. Data based on Census of Manufactures, except as noted. For composition of regions, see fig. I, inside front cover. See also, *Historical Statistics, Colonial Times to 1970*, series P 1-12.]

ITEM	Unit	1963	1967	1972	1977	1982	1987	1989 ¹	1990 ¹
ALL ESTABLISHMENTS									
Number of establishments²		1,000	312	311	321	360	358	369	(NA)
With 20 or more employees		1,000	102	110	114	119	123	126	(NA)
Employee size-clas:									
Establishments		1,000	305	306	313	351	348	359	(NA)
Under 20		1,000	207	199	203	237	230	238	(NA)
20 to 99		1,000	70	74	76	78	84	86	(NA)
100 to 249		1,000	18	20	21	22	21	22	(NA)
250 to 999		1,000	10	11	11	12	11	11	(NA)
1,000 and over		1,000	3	3	3	2	2	2	(NA)
Form of organization:									
Corporate		1,000	176.2	153.9	233.2	284.2	283.2	287.4	(NA)
Noncorporate, total ⁴		1,000	130.4	33.2	87.5	75.7	74.0	81.5	(NA)
Individual proprietorship		1,000	99.2	24.9	42.5	52.3	45.6	35.4	(NA)
Partnership		1,000	27.7	6.7	17.7	18.3	15.0	13.2	(NA)
Value added by region:									
Northeast	Percent	29.8	29.1	26.3	23.7	23.7	23.7	(NA)	(NA)
North Central	Percent	35.4	35.0	34.9	34.4	29.8	29.8	(NA)	(NA)
South	Percent	21.5	22.7	25.5	27.4	29.5	29.5	(NA)	(NA)
West	Percent	13.3	13.0	13.4	14.5	17.0	17.0	(NA)	(NA)
All employees, ⁵ annual average ⁶	Million	17.0	19.3	19.0	19.8	19.1	18.9	19.0	18.8
Payroll, all employees	Bil. dol.	100	132	174	264	380	476	519	532
Payroll per employee	\$1,000	5.9	6.8	9.2	13.5	19.9	25.2	27.3	26.3
Production workers, annual average	Million	12.2	14.0	13.5	13.7	12.4	12.2	12.3	12.1
Percent of all employees	Percent	71.8	72.5	71.1	69.9	64.9	64.6	64.7	64.4
Hours, production workers	Billion	24.5	27.8	26.7	26.7	23.5	24.3	24.7	24.3
Hours per worker	1,000	2.0	2.0	2.0	1.9	1.9	2.0	2.0	2.0
Wages, production workers	Bil. dol.	62	81	106	157	205	251	269	272
Percent of payroll for all employees	Percent	62.0	61.4	60.9	59.5	53.9	52.8	51.8	51.1
Wages per worker	\$1,000	5.1	5.8	7.9	11.5	16.5	20.6	21.9	22.5
Wages per worker hour	Dollar	2.53	2.91	3.97	5.89	8.72	10.35	10.89	11.19
Value added by manufacture ⁷	Bil. dol.	192	262	354	585	824	1,166	1,308	1,326
Per production worker	\$1,000	15.7	18.7	26.2	42.7	66.5	95.5	106.3	109.6
Per production worker hour	Dollar	7.84	9.42	13.26	21.91	35.06	47.97	52.96	54.57
Per dollar of workers' wages	Dollar	3.10	3.23	3.34	3.73	4.02	4.64	4.86	4.88
Cost of materials ⁸	Bil. dol.	230	299	407	782	1,130	1,320	1,503	1,554
Value of shipments ⁹	Bil. dol.	421	557	757	1,359	1,960	2,476	2,793	2,874
Per production worker	\$1,000	34.5	39.8	56.1	99.2	158.1	203.0	227.1	237.5
End-of-year inventories	Bil. dol.	60	84	108	188	307	333	381	393
Capital expenditures, new ⁹	Bil. dol.	11.4	21.5	24.1	47.5	75.0	78.6	87.2	102.0
Ratios:									
Value added to shipments	Ratio	45.6	47.0	46.7	42.9	42.0	47.1	(NA)	(NA)
Inventories to shipments	Ratio	14.2	15.0	14.2	13.8	15.7	13.4	(NA)	(NA)
Payroll to value added	Ratio	52.0	50.3	49.1	45.2	46.1	40.8	(NA)	(NA)
Gross book value of depreciable assets	Bil. dol.	158	218	301	439	692	868	(NA)	(NA)
Machinery and equipment	Bil. dol.	(NA)	157	218	328	527	671	(NA)	(NA)
Assets per employee	\$1,000	9.3	11.3	16.4	22.4	36.2	48.6	(NA)	(NA)
MULTIUNIT COMPANIES									
Establishments	1,000	45.9	51.7	70.2	81.2	81.7	80.9	(NA)	(NA)
Employees	Million	11.0	13.3	14.3	15.0	14.3	13.8	(NA)	(NA)
Production workers	Million	8.1	9.8	9.8	10.1	8.8	8.5	(NA)	(NA)
Payroll, all employees	Bil. dol.	68.2	93.8	138.8	214.2	307.5	377.3	(NA)	(NA)
Wages, production workers	Bil. dol.	44.7	60.9	81.9	124.9	159.1	191.8	(NA)	(NA)
Value added by manufacture	Bil. dol.	146.6	206.4	286.1	485.0	678.4	953.6	(NA)	(NA)
Capital expenditures, new	Bil. dol.	8.9	18.6	20.0	41.0	65.2	66.5	(NA)	(NA)
SINGLE UNIT COMPANIES¹⁰									
Establishments	1,000	260.8	254.0	250.5	278.7	276.3	288.0	(NA)	(NA)
Employees	Million	5.2	5.2	4.8	4.6	4.8	5.1	(NA)	(NA)
Payroll, all employees	Bil. dol.	25.1	28.5	35.4	49.8	72.1	98.3	(NA)	(NA)
Value added by manufacture	Bil. dol.	45.5	55.5	67.9	100.1	145.7	212.1	(NA)	(NA)

NA Not available. ¹ Estimated data based on *Annual Survey of Manufactures*; see text, section 27. ² Includes administrative and auxiliary units, except as noted. ³ Excludes administrative offices and auxiliary units. ⁴ Includes forms of organization not shown separately. ⁵ Includes data for employees of manufacturing establishments engaged in distribution and construction work. ⁶ Data are based on pay periods ending nearest 15th of March, May, August, and November. ⁷ Adjusted value added; takes into account (a) value added by merchandising operations (that is, difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) net change in finished goods and work-in-process inventories between beginning and end of year. ⁸ Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification. ⁹ Includes plants under construction and not yet in operation. ¹⁰ Beginning 1987, includes data obtained from Federal administrative records.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1963, 1967, 1972, 1977, 1982, and 1987*; and *Annual Survey of Manufactures*.

No. 1244. Manufactures—Summary, by Industry Group: 1982, 1987, and 1990

[Data based on various editions of the *Standard Industrial Classification Manual*, published by the Office of Management and Budget; see text, section 27. N.e.c. = Not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series P-58-67.]

SIC ¹ code	INDUSTRY GROUP	1982						1987						1990						1982	
		All employees		Establishments (number)		Value of shipments (mil. dol.)		All employees		Establishments, total		Value of shipments (mil. dol.)		All employees		Payroll (mil. dol.)		Production workers		Value added by manufacture (mil. dol.)	
		Number ² (1,000)	Payroll (mil. dol.)	Number ² (1,000)	Payroll (mil. dol.)	Number ² (1,000)	Payroll (mil. dol.)	Number ² (1,000)	Payroll (mil. dol.)	Number ² (1,000)	Payroll (mil. dol.)	Number ² (1,000)	Payroll (mil. dol.)	Number ² (1,000)	Payroll (mil. dol.)	Number ² (1,000)	Payroll (mil. dol.)	Number ² (1,000)	Payroll (mil. dol.)	Value of shipments (mil. dol.)	
(X) All manufacturing establishments	356,081	19,094	379,627	1,960,206	368,897	18,950	475,651	2,475,901	16,840	532,317	12,129	1,326,362	12,129	1,326,362	12,129	1,326,362	12,129	1,326,362	12,129	2,873,502	
20 Food and kindred products																					
201 Meat products	22,130	1,488	26,088	280,528	20,624	1,449	30,268	329,725	1,470	33,470	1,061	140,973	33,470	140,973	33,470	140,973	33,470	140,973	33,470	384,009	
202 Dairy products	3,523	318	4,993	67,562	3,267	3,267	5,701	77,002	377	6,693	319	18,425	6,693	18,425	6,693	18,425	6,693	18,425	6,693	90,777	
203 Preserved fruits and vegetables	2,224	140	2,553	38,771	(NA)	(NA)	2,366	142	3,217	46,356	139	3,482	85	13,254	46,356	13,254	46,356	44,953	50,962		
204 Grain mill products	(NA)	(NA)	(NA)	(NA)	1,912	1,912	2,197	2,610	102	2,704	36,737	103	4,441	181	20,419	36,737	103	4,441	181	46,538	
205 Bakery products	2,745	(NA)	(NA)	(NA)	31,336	(NA)	2,850	2,850	217	4,761	23,677	208	5,144	126	15,971	23,677	208	5,144	126	19,235	
206 Sugar and confectionery products	1,033	96	1,661	15,576	15,576	1,094	90	1,981	18,887	92	2,252	74	9,475	21,121	21,121	9,475	21,121	21,121	21,121	21,121	
207 Fats and oils	724	39	774	16,752	16,752	595	30	702	15,881	29	751	19	4,118	19,495	19,495	4,118	19,495	19,495	19,495		
208 Beverages	194	2,584	4,244	38,861	2,214	161	4,521	47,327	146	4,499	73	25,034	52,198	52,198	25,034	52,198	52,198	52,198	52,198		
209 Miscellaneous foods and kindred products	3,941	158	2,300	23,938	3,716	158	2,887	29,116	157	3,208	114	14,983	32,375	32,375	14,983	32,375	32,375	14,983	32,375		
21 Tobacco products																					
211 Cigarettes	183	58	1,324	16,061	138	45	1,486	20,757	41	1,516	30	22,561	20,757	20,757	22,561	20,757	20,757	20,757	20,757	29,922	
212 Cigars	14	42	1,094	12,127	11	32	1,486	17,312	28	1,230	20	20,628	17,312	17,312	20,628	17,312	17,312	17,312	17,312	25,522	
213 Chewing and smoking tobacco	60	5	59	254	20	3	36	192	2	137	2	137	137	137	137	137	137	137	137	230	
214 Tobacco stemming and re-drying	29	3	52	665	29	3	77	1,114	3	84	2	1,106	1,114	1,114	1,106	1,114	1,114	1,114	1,114	1,474	
22 Textile mill products																					
221 Broadwoven fabric mills, cotton	6,630	717	9,046	47,515	6,412	672	11,410	62,768	633	11,586	546	26,542	62,768	62,768	26,542	62,768	62,768	26,542	62,768	65,951	
222 Broadwoven fabric mills, manmade	289	77	965	3,932	301	72	1,280	5,598	63	1,137	58	2,457	5,598	5,598	2,457	5,598	5,598	2,457	5,598	5,525	
223 Broadwoven fabric mills, wool	523	141	8,191	441	88	119	1,596	8,049	85	1,688	75	3,619	8,049	8,049	1,688	8,049	8,049	1,688	8,049	8,578	
224 Narrow fabric mills	131	13	1,76	753	852	277	14	236	1,051	16	291	675	675	675	675	675	675	675	675	1,798	
225 Knitting mills	281	18	216	(NA)	2,130	203	19	298	1,136	17	307	15	671	1,136	1,136	671	1,136	1,136	671	1,260	
226 Textile finishing, except wool	753	(NA)	(NA)	(NA)	934	971	56	1,036	7,042	49	1,159	175	6,791	7,042	7,042	6,791	7,042	7,042	6,791	14,597	
227 Carpets and rugs	505	42	603	5,868	477	53	1,039	9,795	52	1,059	41	2,398	9,795	9,795	2,398	9,795	9,795	2,398	9,795	6,304	
228 Yarn and thread mills	714	109	98	7,036	610	114	1,086	53	1,109	6,398	52	1,192	92	3,753	53	3,753	53	3,753	53	10,038	
229 Miscellaneous textile goods	(NA)	(NA)	(NA)	(NA)	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	1,086	10,575	
23 Apparel and other textile products																					
231 Men's and boys' suits and coats	2,391	1,189	12,129	53,348	22,872	1,081	13,904	64,243	993	14,111	845	33,034	64,243	64,243	33,034	64,243	64,243	33,034	64,243	64,414	
232 Men's and boys' furnishings	529	75	876	3,062	347	55	779	2,883	48	768	41	1,501	2,883	2,883	1,501	2,883	2,883	1,501	2,883	2,622	
233 Women's and misses' outerwear	2,544	289	2,837	12,727	2,195	280	3,246	15,441	259	3,275	228	8,051	15,441	15,441	8,051	15,441	15,441	8,051	15,441	14,873	
234 Women's and children's undergarments	10,638	419	11,10	18,225	10,290	349	4,297	19,389	318	4,316	272	10,192	19,389	19,389	10,192	19,389	19,389	10,192	19,389	19,339	
235 Women's and children's undergarments	755	62	793	3,323	3,557	63	8,439	3,738	60	7,798	51	1,859	3,738	3,738	1,859	3,738	3,738	1,859	3,738	3,424	

See footnotes at end of table.

No. 1244. Manufactures—Summary, by Industry Group: 1982, 1987, and 1990—Continued

[See headnote, p. 733.]

SIC ¹ code	INDUSTRY GROUP	1982			1987			1990			
		Establishments (number)	All employees Number (1,000)	Value of shipments (mil. dol.)	Establishments total Number (1,000)	All employees Number (1,000)	Value of shipments (mil. dol.)	All employees Number (1,000)	Payroll (mil. dol.)	Production workers Number (1,000)	Value added by manufacture (mil. dol.)
235	Apparel, other textile products—Con	419	16	157	461	17	204	663	17	227	14
236	Hats, caps, and millinery	968	71	8274	834	72	826	3,753	61	812	424
237	Fur goods	504	3	2,711	380	2	48	423	2	104	2,06
238	Miscellaneous apparel and accessories	1,223	50	513	2,118	986	41	2,229	38	546	1,238
239	Miscellaneous fabricated textile products	6,611	174	2,120	10,281	6,822	198	15,744	189	3,323	7,619
24	Lumber and wood products³	576	8,445	42,935	33,982	698	12,707	69,747	693	13,496	571
241	Logging	1,658	81	1,208	1,132	6,695	86	1,518	83	1,647	69
242	Sawmills and planing mills	158	2,306	2,306	11,132	6,695	180	3,297	19,220	171	3,429
243	Millwork, plywood, and structural members	6,545	165	2,596	11,683	7,930	240	4,658	22,614	4,823	7,115
244	Wood containers	2,250	36	391	1,635	2,216	37	483	2,069	42	636
245	Wood buildings and mobile homes	1,163	60	880	4,955	1,077	65	1,215	6,575	61	1,217
25	Furniture and fixtures³	436	6,084	24,129	11,613	511	9,082	37,462	499	9,851	396
251	Household furniture	475	263	1,162	5,606	284	4,452	18,559	275	4,718	231
253	Public building and related furniture	413	19	285	1,103	484	22	397	20,988	26	5,447
254	Partitions and fixtures	2,148	60	3,125	3,710	2,455	74	5,537	73	7,101	53
259	Miscellaneous furniture and fixtures	1,267	36	551	2,380	2,084	50	892	3,740	51	991
26	Paper and allied products	(NA)	(NA)	(NA)	(NA)	6,342	611	16,860	628	18,946	480
261	Pulp mills	43	488	3,110	3,339	14	535	4,314	16	668	12
262	Paper mills	293	3,431	20,995	281	129	4,597	28,918	130	5,062	99
263	Paperboard mills	222	56	1,502	9,531	198	52	1,859	13,730	53	2,049
265	Paperboard containers and boxes	278	188	3,517	19,192	2,796	194	4,618	25,863	200	5,245
267	Miscellaneous converted paper products	3,006	213	3,961	26,701	3,027	222	5,251	36,165	229	5,923
27	Printing and publishing³	53,406	1,292	22,707	85,797	1,634	35,440	136,196	1,538	38,807	818
271	Newspapers	6,646	492	6,655	21,276	9,079	4,072	31,850	10,407	26,550	149
272	Periodicals	3,328	94	1,986	11,478	4,076	110	2,983	17,329	115	3,659
273	Books	2,611	112	2,080	10,132	2,856	114	2,821	15,876	122	3,463
274	Miscellaneous publishing	2,057	45	(NA)	2,876	2,376	70	1,513	7,810	85	1,708
275	Commercial printing	810	50	(NA)	36,103	553	12,301	44,786	580	14,271	421
276	Manifold business forms	154	21	344	1,894	1,622	53	1,281	7,397	50	1,326
277	Greeting cards	1,487	61	(NA)	903	1,545	69	1,266	4,080	25	625
278	Blankbooks and bookbinding					4,783	1,803	7,372	70	1,396	54
279	Printing trade services					(NA)	(NA)	1,784	4,157	67	48

See footnotes at end of table.

No. 1244. Manufactures—Summary, by Industry Group: 1982, 1987, and 1990—Continued

[See headnote, p. 733.]

SIC ¹ code	INDUSTRY GROUP	1982						1987						1990						
		All employees Number ² (1,000)		Value of shipments (mil. dol.)		Establish- ments, (number)		All employees Number (1,000)		Payroll (mil. dol.)		Value of shipments (mil. dol.)		All employees Number (1,000)		Payroll (mil. dol.)		Value added by manufacture (mil. dol.)		
		Establish- ments (number)	Payroll (mil. dol.)	Establish- ments (number)	Payroll (mil. dol.)	Establish- ments (number)	Payroll (mil. dol.)	Establish- ments (number)	Payroll (mil. dol.)	Establish- ments (number)	Payroll (mil. dol.)	Establish- ments (number)	Payroll (mil. dol.)	Establish- ments (number)	Payroll (mil. dol.)	Establish- ments (number)	Payroll (mil. dol.)	Establish- ments (number)	Payroll (mil. dol.)	
28	Chemicals and allied products	11,901	873	20,836	170,737	12,109	814	25,016	229,546	853	30,082	484	153,032	288,184	288,184	484	153,032	288,184	288,184	
281	Industrial inorganic chemicals	1,365	108	2,795	17,280	1,405	94	3,099	19,774	101	3,843	55	16,100	26,691	26,691	55	16,100	26,691	26,691	
282	Plastics materials and synthetics	606	141	3,451	28,428	680	123	4,013	40,851	132	4,802	88	20,511	48,420	48,420	88	20,511	48,420	48,420	
283	Drugs	1281	166	3,966	24,895	1,356	172	5,304	39,253	183	6,851	81	38,245	53,720	53,720	78	38,245	53,720	53,720	
284	Soap, cleaners, and toilet goods	2,379	127	2,581	26,031	2,399	119	3,099	34,748	126	3,683	54	25,008	41,438	41,438	78	25,008	41,438	41,438	
285	Paints and allied products	1,441	54	1,158	9,162	1,431	55	1,492	12,732	126	1,628	27	6,766	14,239	14,239	54	6,766	14,239	14,239	
286	Industrial organic chemicals	944	4,005	38,157	961	126	4,541	51,158	126	5,187	75	28,813	65,696	65,696	75	28,813	65,696	65,696		
287	Agricultural chemicals	1,127	51	1,158	14,953	973	40	1,171	14,257	43	1,445	27	8,080	18,307	18,307	43	8,080	18,307	18,307	
289	Miscellaneous chemical products	2,733	82	1,725	26,330	2,904	85	2,298	16,732	89	2,843	53	9,531	19,674	19,674	89	9,531	19,674	19,674	
29	Petroleum and coal products	2,322	152	4,339	208,919	2,254	116	3,996	130,414	112	4,474	74	27,214	172,589	172,589	74	27,214	172,589	172,589	
291	Petroleum refining	(NA)	(NA)	3,307	625	5,948	1,367	75	2,845	118,186	72	3,196	47	22,822	159,411	159,411	47	22,822	159,411	159,411
295	Asphalt paving and roofing materials	30	30	312	3,614	5,556	13	365	4,479	28	3,848	19	7,799	2,735	2,735	19	7,799	2,735	2,735	
299	Miscellaneous petroleum and coal products	582	14	582	625	5,948	1,367	786	7,799	27	3,848	7	1,637	5,379	5,379	7	1,637	5,379	5,379	
30	Rubber and misc. plastics products	13,449	682	11,597	55,416	14,515	831	17,581	86,634	870	20,236	674	49,889	101,398	101,398	674	49,889	101,398	101,398	
301	Tires and inner tubes	164	70	1,734	9,340	164	65	2,070	10,427	68	2,315	55	6,489	11,861	11,861	68	6,489	11,861	11,861	
302	Rubber and plastics footwear	65	18	197	7,06	66	11	1,163	557	11	1,159	9	339	650	650	11	339	650	650	
303	Hose and belting and plastics and packing	635	55	999	3,612	693	52	1,159	4,648	56	1,375	42	3,143	5,570	5,570	56	3,143	5,570	5,570	
306	Fabricated rubber products, n.e.c.	(NA)	(NA)	(NA)	(NA)	1,573	104	2,245	9,227	103	2,336	80	5,225	10,559	10,559	103	5,225	10,559	10,559	
308	Miscellaneous plastics products, n.e.c.	(NA)	(NA)	(NA)	(NA)	12,019	599	11,955	61,775	633	14,052	489	34,693	72,756	72,756	633	34,693	72,756	72,756	
31	Leather and leather products	2,735	200	2,219	9,719	2,193	129	1,831	9,082	117	1,888	99	4,587	9,887	9,887	117	1,888	9,887	9,887	
311	Leather tanning and finishing	384	20	311	1,753	344	15	2,219	2,219	12	2,219	282	10	780	2,411	2,411	12	2,219	2,411	2,411
313	Footwear cut stock	161	7	81	5,968	128	5	70	324	5	94	54	1,186	4,232	4,232	54	1,186	4,232	4,232	
314	Footwear, except rubber	751	121	1,250	5,269	479	71	4,073	62	896	34	1,143	155	155	155	34	1,143	155	155	
315	Leather gloves and mittens	96	4	37	178	77	3	34	185	3	196	11	244	1,169	1,169	3	196	1,169	1,169	
316	Luggage	292	16	194	789	241	11	232	929	14	244	11	207	510	510	14	244	510	510	
317	Handbags and personal leather goods	636	25	271	1,035	529	17	232	942	13	244	10	207	912	912	10	244	912	912	
319	Leather goods, n.e.c.	415	7	76	327	395	7	95	411	9	411	7	303	595	595	7	303	595	595	

See footnotes at end of table.

No. 1244. Manufactures—Summary, by Industry Group: 1982, 1987, and 1990—Continued

[See headnote, page 733.]

SIC ¹ code	INDUSTRY GROUP	1982			1987			1990		
		Establishments (number)	All employees Number ² (1,000)	Value of shipments (mil. dol.)	Establish- ments (number)	All employees Number (1,000)	Value of shipments (mil. dol.)	Establish- ments (number)	All employees Number (1,000)	Value of shipments (mil. dol.)
32	Stone, clay, and glass products	16,545	532	10,087	16,181	524	12,349	509	13,189	395
321	Flat glass	69	15	4,141	6,686	81	5,077	2,549	5,09	3,195
322	Glass and glassware, pressed or blown	459	97	2,032	7,941	522	7,77	8,339	72	2,059
323	Products of purchased glass	1,337	41	696	1,977	1,432	1,060	5,429	54	1,250
324	Cement, hydraulic	237	25	25	5,542	215	519	4,325	18	599
325	Structural clay products	628	30	491	1,988	598	35	2,915	34	756
326	Pottery and related products	910	37	598	1,782	1,006	38	2,416	38	832
327	Concrete and plaster products	9,933	167	2,995	14,947	9,814	203	4,632	195	4,806
328	Cut stone and stone products	711	11	156	555	745	13	243	14	297
329	Miscellaneous nonmetallic mineral products	(NA)	(NA)	(NA)	(NA)	1,753	73	1,898	71	2,062
33	Primary metal industries³	854	20,603	104,667	6,771	701	19,777	120,248	712	22,477
331	Blast furnaces and basic steel products	1,061	366	2,627	46,720	253	8,176	51,615	259	9,386
332	Iron and steel foundries	1,968	157	3,113	9,642	1,231	3,426	10,628	133	3,781
333	Primary nonferrous metals	458	44	1,307	11,321	169	32	996	35	1,281
334	Secondary nonferrous metals	1,022	19	402	4,852	387	13	4,431	15	418
335	Nonferrous rolling and drawing	1,022	167	3,636	25,463	1,066	163	3,282	157	4,713
336	Nonferrous foundries (castings)	(NA)	(NA)	(NA)	(NA)	1,687	80	1,805	80	1,954
34	Fabricated metal products	1,460	28,263	119,444	36,105	1,458	35,000	147,386	1,439	37,790
341	Metal cans and shipping containers	35,560	59	1,523	12,112	538	1,527	12,114	43	1,439
342	Cutting, handtools, and hardware	2,238	141	2,585	10,082	2,927	145	3,389	13,449	3,925
343	Plumbing, heating, and electrical equipment	1,177	48	821	4,003	828	46	1,005	5,283	43
344	Fabricated structural metal products	12,581	422	7,897	34,904	12,579	407	9,042	40,416	406
345	Screw machine products, bolts, etc.	2,690	94	1,727	5,834	2,569	95	2,270	7,890	95
346	Metal forgings and stampings	4,019	236	5,110	20,057	4,062	255	7,235	28,410	249
347	Metal services, n.e.c.	5,070	97	1,518	5,125	5,251	113	2,167	7,790	117
348	Ordnance and accessories, n.e.c.	349	79	1,780	4,983	374	88	2,458	7,644	71
349	Miscellaneous fabricated metal products	6,770	284	5,312	22,274	7,577	262	5,906	24,340	275
351	Industrial machinery and equipment	2,189	52,912	46,911	187,896	52,135	1,844	50,553	217,670	1,877
352	Engines and turbines	112	341	2,850	13,040	356	87	2,906	14,570	83
353	Farm and garden machinery	2,078	114	2,386	13,018	1,604	82	1,917	11,474	94
354	Construction and related machinery	3,952	326	7,332	32,028	3,67	188	5,272	24,622	203
355	Metallurgical machinery	(NA)	(NA)	(NA)	(NA)	11,470	268	7,301	22,004	281
356	Special industrial machinery	(NA)	(NA)	(NA)	(NA)	4,450	169	4,588	17,306	522
357	Computer and office equipment	(NA)	(NA)	(NA)	(NA)	3,128	240	6,203	24,121	288
358	Refrigeration and service machinery	1,937	172	3,344	16,450	2,134	129	10,688	60,622	106
359	Industrial machinery, n.e.c.	(NA)	(NA)	(NA)	(NA)	22,296	292	4,752	35,235	310

See footnotes at end of table.

[See headnote, page 733.]

No. 1244. Manufactures—Summary, by Industry Group: 1982, 1987, and 1990—Continued

[See headnote, page 733]

SIC ¹ code	INDUSTRY GROUP	1982			1987			1990									
		Establishments (number)	All employees Number ² (1,000)	Value of shipments (mil. dol.)	Establish- ments (number)	All employees Number (1,000)	Value of ship- ments (mil. dol.)	All employees Number (1,000)	Payroll (mil. dol.)	Production workers Number (1,000)	Value added by manufacture (mil. dol.)						
36	Electronics; other electric equip. ³	(NA)	(NA)	(NA)	15,962	1,562 ⁴	38,738	171,286	1,497	42,067	950	106,984	104,948				
361	Electric distribution equipment	(NA)	(NA)	(NA)	786	77	1,791	75	1,946	53	5,207	9,729					
362	Electrical industrial apparatus	(NA)	(NA)	(NA)	2,213	168	3,882	15,266	162	4,207	109	10,127	18,159				
363	Household appliances	(NA)	(NA)	(NA)	480	117	2,642	16,498	111	2,604	88	7,836	18,069				
364	Electric lighting and wiring equipment	(NA)	(NA)	(NA)	12,043	1,986	167	3,732	18,004	157	3,893	114	10,769	19,322			
365	Household audio and video equipment	(NA)	(NA)	(NA)	159	2,713	1,854	44	950	45	9,999	33	3,150	9,377			
366	Communication equipment	(NA)	(NA)	(NA)	1,437	260	7,537	7,833	250	8,861	119	22,356	38,452				
367	Electronic components and accessories	(NA)	(NA)	(NA)	5,911	5,646	13,623	50,258	536	15,293	326	37,720	63,844				
368	Misc. electrical equipment and supplies	(NA)	(NA)	(NA)	2,315	188	4,682	21,230	162	4,465	107	10,276	20,897				
37	Transportation equipment	(NA)	(NA)	(NA)	10,500	1,817	58,790	332,936	1,774	62,855	1,154	146,916	387,927				
371	Motor vehicles and equipment	(NA)	(NA)	(NA)	112,270	4,422	751	23,910	704	24,793	567	69,849	214,964				
372	Aircraft and parts	(NA)	(NA)	(NA)	52,027	1,618	596	20,590	77,304	22,906	324	44,903	94,640				
373	Ship and boat building and repairing	(NA)	(NA)	(NA)	13,236	2,736	177	4,296	13,957	175	4,667	134	8,555	15,854			
374	Railroad equipment	(NA)	(NA)	(NA)	205	790	3,457	1,133	22	631	2,771	30	870	1,839			
375	Motorcycles, bicycles, and parts	(NA)	(NA)	(NA)	13	225	1,341	246	158	1,063	214	8	571	1,476			
376	Glided missiles, space vehicles, parts	(NA)	(NA)	(NA)	105	148	14,388	1,586	214	8,114	200	8,438	73	19,284	30,554		
377	Miscellaneous transportation equipment	(NA)	(NA)	(NA)	961	43	879	4,529	1,119	49	1,122	39	968	28	2,116	5,746	
38	Instruments and related products	(NA)	(NA)	(NA)	10,812	201,346	10,500	1,817	332,936	1,774	62,855	1,154	146,916	387,927			
381	Search and navigation equipment	(NA)	(NA)	(NA)	15,393	1,4718	52,027	1,618	751	23,910	704	24,793	567	69,849	214,964		
382	Measuring and controlling devices	(NA)	(NA)	(NA)	1,471	539	1,4718	52,027	751	23,910	704	24,793	567	69,849	214,964		
383	Medical instruments and supplies	(NA)	(NA)	(NA)	2,586	410	1,4718	52,027	751	23,910	704	24,793	567	69,849	214,964		
384	Ophthalmic goods	(NA)	(NA)	(NA)	2,973	189	3,555	15,133	3,434	204	5,027	235	6,603	13,957			
385	Photographic equipment and supplies	(NA)	(NA)	(NA)	410	26	3,549	1,273	494	24	4,415	1,988	28	605	20	1,639	
386	Watches, clocks, wristcases and parts	(NA)	(NA)	(NA)	795	119	3,193	17,038	791	6,033	19,241	79	2,937	41	14,527	21,018	
387	Administrative and auxiliary	(NA)	(NA)	(NA)	237	17	248	1,188	221	12	223	9	218	7	665	1,360	
39	Miscel. manufacturing industries	(NA)	(NA)	(NA)	15,471	383	5,647	26,891	16,544	374	6,884	32,012	386	7,805	278	20,086	37,205
391	Jewelry, silverware, and plated ware	(NA)	(NA)	(NA)	2,682	50	4,379	2,978	50	941	5,654	49	1,040	35	2,591	5,754	
392	Musical instruments	(NA)	(NA)	(NA)	452	18	258	918	420	425	12	218	814	12	234	9	548
393	Toys and sporting goods	(NA)	(NA)	(NA)	2,570	99	1,389	8,256	2,711	89	1,512	878	99	1,886	73	5,920	11,044
394	Pens, pencils, office, and art supplies	(NA)	(NA)	(NA)	1,026	32	485	2,372	1,013	29	540	2,536	32	611	21	1,750	3,310
395	Costume jewelry and notions	(NA)	(NA)	(NA)	387	1	1,188	1,188	1,188	1,188	1,020	2,062	28	491	20	1,364	2,223
396	Miscellaneous manufactures	(NA)	(NA)	(NA)	399	9,676	1,276	38,220	-	9,480	1,234	47,202	-	3,543	119	7,884	14,002
											1,261	59,695	-				

- Represents zero. NA Not available. X Not applicable. ¹ Standard Industrial Classification Code; see text, section 27. ² All employees represents the average of production workers plus other employees for the payroll period ending nearest the 15th of March. ³ Includes other industries, not shown separately. ⁴ Manufacturing concerns often report separately for central offices or auxiliaries which serve the manufacturing establishment of a company, rather than the general public. Separate reports were obtained from such units if at a different location or if they serviced more than one establishment.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1987*, and *Annual Survey of Manufactures*.

No. 1245. Manufactures—Summary, by Industry Group; Ranked by Value Added: 1982, 1987, and 1990

[Data based on various editions of the Standard Industrial Classification Manual and Budget; see text, section 27. N.e.c. = Not elsewhere classified. See also Historical Statistics, Colonial Times to 1970, series P-58-67.]

SIC ¹ code	INDUSTRY GROUP	1982						1987						1990					
		All employees Establishments (number)		Value of ship- ments (mil. dol.)		Estab- lishments (number)		All employees Payroll (mil. dol.)		Value of ship- ments (mil. dol.)		All employees Payroll (mil. dol.)		Production workers (mil. dol.)		Value added by manufacture (mil. dol.)		Value of ship- ments (mil. dol.)	
		All employees Number ² (1,000)	Payroll (mil. dol.)																
3711	Motor vehicles and car bodies	355	240.1	6,822	70,740	413	284.4	10,376	133,346	239.8	10,060	200.0	39,504	140,417	39,504	140,417			
2834	Pharmaceutical preparations	683	124.4	3,053	18,988	732	131.6	4,168	52,094	143.8	5,531	61.5	32,715	44,182	51,320	44,182			
3714	Motor vehicle parts and accessories	2,20	321.4	7,614	36,293	2,607	389.1	11,947	62,007	388.7	13,037	308.4	26,871	64,875	26,871	64,875			
3711	Newspapers	8,846	401.5	6,555	21,276	9,091	434.6	9,025	443.4	10,407	149.2	26,560	34,642	26,560	34,642				
3812	Search and navigation equipment	17	1.1	(NA)	(NA)	1,084	368.4	1,084	362.67	313.6	12,258	130.3	24,932	36,734	24,932	36,734			
2858	Industrial organic chemicals, n.e.c.	17,842	5,746	19,442	10,213	1,084	12,127	1,234	17,372	27.8	1,230	20.2	20,638	25,528	20,638	25,528			
2911	Petroleum refining	2,752	311.9	1,084	12,127	155	286.2	9,880	39,093	258.3	11,225	139.7	20,265	51,370	20,265	51,370			
2111	Commercial printing, lithographic	17,842	5,746	19,442	10,213	1,084	12,127	1,234	17,372	27.8	1,230	20.2	20,638	25,528	20,638	25,528			
3721	Cigarettes	165	273.1	7,744	28,024	155	286.2	8,574	384.7	7,286	8,536	8,536	19,898	38,948	19,898	38,948			
3069	Plastics products, n.e.c.	165	273.1	7,744	28,024	155	286.2	8,574	384.7	7,286	8,536	8,536	19,898	38,948	19,898	38,948			
3571	Electronic computers	371	1.1	(NA)	(NA)	974	151.9	4,953	33,627	134.1	5,265	44.0	19,686	39,294	19,686	39,294			
3728	Blast furnaces and steel mills	301	295.8	8,678	36,824	188.9	6,451	3,663	188.5	6,451	3,663	188.5	144.0	24,492	54,160	144.0	24,492		
3674	Semiconductors and related devices	766	156.5	3,785	12,430	853	184.6	5,495	19,795	181.8	6,432	42.6	22,822	159,411	22,822	159,411			
2821	Paper mills	299	126.0	3,421	20,995	282	129.1	4,587	28,916	130.1	5,062	98.6	16,600	35,322	16,600	35,322			
3761	Guided missiles and space vehicles	29	98.6	10,213	3159	40	166.7	6,415	21,566	156.2	6,743	54.2	15,733	25,083	15,733	25,083			
3861	Photographic equipment and supplies	795	119.3	3,153	11,038	787	88.0	2,978	19,241	79.3	2,937	41.2	14,527	21,018	14,527	21,018			
3728	Aircraft parts and equipment, n.e.c.	3,328	94.0	3,429	11,478	4,020	110.0	1,968	21,129	115.2	3,659	21.6	13,848	20,397	13,848	20,397			
966	132.8	3,429	11,478	4,020	110.0	1,968	21.6	13,848	21.6	3,659	21.6	13,848	20,397	13,848	20,397				
2844	Plastics materials and resins	440	54.7	1,454	15,769	563	58.5	2,006	26,246	62.4	2,486	37.9	31,326	45,950	31,326	45,950			
639	Toilet preparations	604	1,102	10,183	69.4	58.5	1,353	14,593	61.1	1,621	38.1	12,104	17,048	12,104	17,048				
340	Aircraft engines and engine parts	130	3,544	13,809	453	139.6	4,814	20,262	129.0	4,830	72.6	12,059	22,813	12,059	22,813				
3599	Industrial machinery, n.e.c.	1,626	1,626	(NA)	(NA)	21,545	288.4	5,119	13,692	247.2	6,312	190.3	11,741	17,184	11,741	17,184			
3663	Radio and television communications equip.	665	61.7	1,327	7,740	1,206	655	126.0	3,776	14,229	135.4	4,652	62.4	11,278	18,759	11,278	18,759		
2731	Book publishing	2,130	61.7	1,327	7,740	2,298	70.1	1,360	12,620	73.5	2,300	17.3	10,920	15,318	10,920	15,318			
2819	Industrial inorganic chemicals, n.e.c.	645	170.7	2,324	13,143	72.2	2,425	13,122	76.6	2,486	46.0	10,890	17,719	10,890	17,719				
2821	Bread, cake, and related products	2,305	170.7	2,324	13,143	2,357	161.6	3,556	16,202	149.0	3,763	82.4	10,476	17,019	10,476	17,019			
1,367	Telephone and telegraph apparatus	1,126	1,126	2,146	16,808	1,190	95.6	2,277	22,006	82.4	3,421	32.0	23,848	32.0	23,848	32.0			
2056	Bottled and canned soft drinks	1,626	1,626	(NA)	(NA)	2,900	162.6	3,891	15,439	159.9	4,108	101.1	8,727	17,222	8,727	17,222			
3679	Electronic components, n.e.c.	865	120.5	2,983	12,390	882	133.3	3,355	17,027	126.9	3,507	92.4	8,340	19,043	8,340	19,043			
2682	Refrigeration and heating equipment	109	43.0	1,308	11,308	91.9	1,355	13,619	92.6	1,425	23.5	8,133	15,186	8,133	15,186				
2681	Malt beverages	222	55.6	1,552	9,531	20.5	52.3	1,659	13,730	53.1	2,049	40.7	8,133	15,919	8,133	15,919			
2841	Paperboard mills	2,305	35.4	827	9,167	1,956	1,956	11,559	17,583	1,956	1,956	1,956	12,104	15,733	12,104	15,733			
2676	Sanitary paper products	138	36.7	863	9,086	133	38.4	1,155	11,698	39.0	1,299	31.0	7,836	14,709	7,836	14,709			
3841	Surgical appliances and supplies	1,367	68.8	2,111	5,667	1,190	78.5	1,786	8,533	78.5	1,895	55.6	7,163	11,128	7,163	11,128			
3531	Surgical and medical instruments	859	56.9	1,000	4,085	1,136	78.3	1,786	8,780	88.9	2,434	53.8	7,078	10,262	7,078	10,262			
1,441	Construction machinery	939	115.5	2,633	11,658	955	81.2	1,491	12,773	89.9	2,678	60.7	6,997	16,070	6,997	16,070			
2851	Paints and allied products	1,158	1,158	1,162	1,426	55.2	1,491	12,701	53.9	1,628	27.2	6,736	14,239	6,736	14,239				
2011	Meat packing plants	1,760	134.4	2,549	4,954	1,434	1,434	2,141	4,991	118.4	2,256	100.1	6,687	51,069	6,687	51,069			
2741	Miscellaneous publishing	2,057	45.3	706	2,369	2,871	1,513	706	69.4	69.4	69.4	69.4	6,686	6,686	6,686	6,686			

See footnotes at end of table.

No. 1245. Manufactures—Summary, by Industry Group: Ranked by Value Added: 1982, 1987, and 1990—Continued

[Data based on various editions of the Standard Industrial Classification Manual, published by the Office of Management and Budget; see text, section 27. N.e.c. = Not elsewhere classified. See also Historical Statistics, Colonial Times to 1970, series P-55-67.]

SIC ¹ code	INDUSTRY GROUP	1982						1987						1990						1982					
		All employees			Value of ship- ments (mil. dol.)			Estab- lishments (number)			All employees			Value of ship- ments (mil. dol.)			All employees			Value of ship- ments (mil. dol.)					
		Establish- ments (number)	Number ² (1,000)	Payroll (mil. dol.)	Establish- ments (number)	Number (1,000)	Payroll (mil. dol.)	Establish- ments (number)	Number (1,000)	Payroll (mil. dol.)	Establish- ments (number)	Number (1,000)	Payroll (mil. dol.)	Establish- ments (number)	Number (1,000)	Payroll (mil. dol.)	Establish- ments (number)	Number (1,000)	Payroll (mil. dol.)	Establish- ments (number)	Number (1,000)	Payroll (mil. dol.)			
3544	Special dies, tools, jigs, and fixtures	7,255	102,9	2,293	5,375	7,317	114,4	3,164	7,650	119,8	3,805	92,2	6,525	9,487											
3011	Tires and inner tubes	164	170,3	1,734	9,340	189	65,4	2,070	10,497	67,7	2,315	54,7	6,189	11,961											
2023	Poultry slaughtering and processing	532	117,7	1,237	10,471	463	147,7	2,019	14,912	176,8	2,597	157,6	6,452	20,928											
2033	Canned fruits and vegetables	715	70,5	1,040	9,283	647	65,6	1,163	11,890	68,0	1,408	56,2	6,405	14,988											
2043	Ship building and repairing	689	168,7	3,738	10,967	590	120,2	3,218	8,504	121,2	3,606	91,0	6,383	10,886											
2043	Cereal breakfast foods	52	15,6	435	4,132	53	16,0	599	6,568	16,1	684	13,1	6,325	8,705											
3425	Automobile stampings	668	90,5	2,293	8,777	713	119,8	3,977	16,252	110,6	3,888	91,3	14,545												
2421	Sawmills and planing mills, general	131,9	2,020	10,065	5,742	148,2	2,817	17,367	138,9	2,913	124,5	6,184	17,923												
2759	Commercial printing, n.e.c.	(NA)	(NA)	(NA)	10,796	10,796	126,2	2,480	8,973	133,2	2,964	93,6	6,129	10,380											
3523	Farm machinery and equipment	1,903	96,1	2,067	10,743	561	1,624	1,416	8,890	68,6	1,883	49,9	5,977	11,536											
2824	Organic fibers, noncellulosic	70	80,2	1,382	8,263	72	45,7	1,347	10,112	48,1	1,539	38,1	5,390	11,427											
2853	Corrugated and solid fiber boxes	1,492	94,4	1,682	10,558	1,601	105,8	2,610	16,107	110,1	2,984	60,0	5,902	18,512											
2026	Textile mill	1,190	78,2	1,469	18,736	946	72,4	1,681	20,591	69,6	1,832	34,0	5,780	22,704											
3273	Ready-mixed concrete	5,379	81,4	1,475	8,163	9,163	7,227	9,630	2,289	91,8	2,353	5,834	12,830												
3359	Special industry machinery, n.e.c.	(NA)	(NA)	(NA)	8,531	83,3	82,86	8,275	84,2	74,7	2,710	47,3	5,517	10,247											
2089	Food preparations, n.e.c.	(NA)	(NA)	(NA)	1,658	57,9	1,110	9,787	55,7	7,197	38,1	4,548	11,048												
3825	Instruments to measure electricity	749	89,7	1,888	9,804	90	85,2	2,477	7,703	78,4	2,604	38,7	5,352	8,390											
2013	Sausages and other prepared meats	1,311	65,5	1,206	12,278	1,344	79,1	1,619	16,633	81,7	1,840	61,2	5,316	16,750											
2829	Agricultural chemicals, n.e.c.	330	16,5	404	5,436	16,6	1,518	6,300	1,379	16,6	1,379	12,77	4,997	10,2											
3812	Printed circuit boards	(NA)	(NA)	(NA)	1,009	6,666	1,379	4,673	76,7	2,104	51,0	4,946	7,844												
3819	Chemical preparations, n.e.c.	397	83,7	6,344	1,529	37,9	1,021	8,024	40,9	1,205	2,339	4,907	9,418												
3519	Internal combustion engines, n.e.c.	1,453	79,6	1,979	9,363	6,278	64,0	2,043	11,123	61,3	2,118	42,9	4,900	12,224											
3444	Sheet metal work	3,795	81,1	1,495	6,854	4,297	100,3	2,237	9,700	99,1	2,445	73,5	4,867	10,249											
2052	Cookies and crackers	358	45,6	797	4,665	380	45,4	1,010	6,639	48,7	1,181	35,3	4,823	7,804											
3469	Metal stampings, n.e.c.	2,843	100,4	1,783	6,438	2,815	95,5	2,132	8,331	98,4	2,383	74,7	4,747	9,380											
3625	Rolays and industrial controls	357	10,7	1,196	1,198	1,196	6,616	1,631	6,610	1,819	3,897	4,688	4,784	7,854											
3257	Nomeric wirerawing and insulating	440	67,6	1,270	8,217	4,497	64,9	1,504	10,827	60,2	1,601	44,6	4,921	12,859											
3459	Hardware, n.e.c.	1,857	80,1	1,521	5,741	1,240	85,6	2,056	8,175	78,8	2,016	60,8	4,593	8,482											
2511	Wood household furniture	2,607	125,6	1,403	5,057	2,948	135,8	2,017	7,980	130,9	2,097	112,6	4,399	8,303											
3572	Computer storage devices	(NA)	(NA)	(NA)	106	43,3	1,443	6,395	42,6	1,490	15,4	4,359	8,751												
2064	Candy and other confectionery products	11,653	80,8	1,208	8,274	85,7	900	6,900	49,2	1,073	39,5	4,355	7,982												
2411	Logging	1,923	162,9	1,965	5,059	833	1,746	1,516	10,880	83,4	1,647	68,9	4,131	12,229											
3081	Unsupported plastics film and sheet	2,740	925	49,5	934	1,565	6,202	2,280	7,74	81,0	2,428	68,4	4,119	8,654											
3443	Fabricated plate work (boiler shops)	810	103,6	1,346	8,853	8,853	50,9	2,454	80,9	1,881	8,667	82,7	4,038	7,808											
3221	Gray and ductile iron foundries	2,740	812	1,546	4,472	84,2	1,546	6,060	4,462	74,6	1,664	6,753	55,1	4,005	7,672										
2761	Manifold business forms	3441	Fabricated structural metal	3621	Motors and generators	472	84,2	1,546	6,060	72,6	1,751	55,1	4,005	7,672											

NA. Not available. ¹Standard Industrial Classification Code, see text, section 27. ²All employees represents the average of production workers plus all other employees for the payroll period ended nearest the 15th of the month.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1987 and Annual Survey of Manufactures*.

Manufactures

No. 1246. Manufactures Summary

[Sum of State totals may not add to U.S. total]

	DIVISION AND STATE	1982			1987			Value added by manu- facture (mil. dol.)	Value of ship- ments (mil. dol.)		
		All employees ²		Establish- ments, total, 1 (1,000)	All employees ²		Establish- ments, total, 1 (1,000)				
		Num- ber ³ (1,000)	Payroll (mil. dol.)		Value of ship- ments (mil. dol.)	Establish- ments, total, 1 (1,000)	Payroll (mil. dol.)				
1	U.S.	358,061	19,094	379,627	1,960,206	368,897	18,950	475,651	1,165,917		
2	Northeast	91,102	4,798	95,919	400,767	88,287	4,357	112,222	259,074		
3	N.E.	25,659	1,445	27,603	105,938	26,393	1,350	34,455	78,908		
4	ME	2,008	110	1,775	8,649	2,172	102	2,192	5,271		
5	NH	1,981	107	1,792	7,636	2,328	108	2,509	8,189		
6	VT	1,104	47	863	3,730	1,262	49	1,140	2,543		
7	MA	11,017	643	12,353	48,204	11,006	501	15,211	35,770		
8	RI	2,855	114	1,760	7,652	2,878	112	2,292	4,788		
9	CT	6,693	424	9,060	30,067	6,747	389	11,111	22,349		
10	M.A.	65,443	3,353	68,316	294,829	61,894	3,007	77,767	180,165		
11	NY	32,651	1,419	29,156	121,469	29,608	1,279	33,916	80,033		
12	NJ	15,126	754	15,845	70,420	14,442	691	18,550	42,527		
13	PA	17,666	1,180	23,315	102,940	17,844	1,038	25,302	57,605		
14	Midwest	91,318	5,609	117,830	596,245	94,269	5,508	148,994	351,139		
15	E.N.C.	67,378	4,337	92,400	440,702	89,756	4,186	116,148	286,248		
16	OH	16,960	1,102	24,740	112,278	17,544	1,100	30,765	71,707		
17	IN	7,960	585	12,559	63,332	8,641	602	15,757	39,279		
18	IL	18,618	1,069	22,681	112,929	18,404	990	26,235	63,350		
19	MI	15,158	884	22,223	99,715	16,010	980	30,628	60,259		
20	WI	8,682	697	10,197	52,448	9,157	514	12,763	31,653		
21	W.N.C.	23,940	1,272	25,430	155,543	24,513	1,322	32,846	84,891		
22	MN	6,775	350	7,423	35,321	7,112	374	10,142	23,322		
23	IA	3,598	213	4,403	31,397	3,569	206	4,971	14,469		
24	MO	7,069	406	8,013	41,459	7,290	419	10,390	25,917		
25	ND	587	15	246	2,465	627	15	310	979		
26	SD	748	25	398	3,005	764	28	498	1,476		
27	NE	1,928	92	1,624	15,143	1,876	91	1,938	5,819		
28	KS	3,235	171	3,323	26,753	3,275	189	4,597	12,909		
29	South	99,304	5,819	101,293	647,918	104,500	5,839	128,278	354,380		
30	S.A.	48,855	2,930	48,588	256,625	53,478	3,104	66,893	179,075		
31	DE	632	68	1,743	8,383	673	67	2,091	3,866		
32	MD	3,883	234	4,859	21,282	4,244	230	5,956	14,020		
33	DC	514	17	394	1,537	486	17	494	1,525		
34	VA	5,668	391	6,649	36,803	6,137	429	9,740	26,857		
35	W.V.	1,662	96	2,007	9,869	1,619	84	2,108	5,404		
36	NC	10,133	799	11,717	64,176	10,995	842	16,293	47,007		
37	SC	4,206	368	5,540	27,836	4,534	366	7,324	19,112		
38	GA	8,534	503	7,906	48,056	9,187	570	11,933	33,708		
39	FL	13,723	454	7,773	38,683	15,603	499	10,954	27,574		
40	E.S.C.	18,573	1,241	20,132	119,698	19,718	1,303	26,524	74,296		
41	KY	3,502	247	4,639	29,639	3,693	252	5,865	18,092		
42	TN	6,417	462	7,378	40,777	6,864	485	9,869	27,050		
43	AL	5,528	330	5,234	29,794	5,843	347	6,963	18,652		
44	MS	3,126	202	2,881	19,488	3,318	219	3,827	10,503		
45	W.S.C.	31,876	1,648	32,573	271,595	31,304	1,432	34,861	101,009		
46	AR	3,313	190	2,824	19,747	3,390	206	3,815	10,827		
47	LA	4,107	202	4,304	57,058	3,816	181	4,176	16,426		
48	OK	4,168	197	4,010	23,116	3,728	151	3,629	9,857		
49	TX	20,288	1,059	21,435	171,674	20,370	914	23,241	63,898		
50	West	76,337	3,074	64,587	315,277	81,841	3,246	86,158	201,325		
51	Mt.	14,854	556	10,863	56,997	16,479	596	14,889	35,822		
52	MT	1,090	20	379	3,668	1,239	20	426	1,112		
53	ID.	1,404	48	865	5,370	1,491	53	1,149	3,057		
54	WY	511	10	183	2,558	500	8	180	493		
55	CO	4,406	192	3,983	17,963	4,718	184	4,956	12,046		
56	NM	1,223	33	521	3,815	1,322	35	713	1,653		
57	AZ	3,407	150	3,037	12,907	4,151	184	4,669	11,299		
58	UT	1,962	83	1,539	8,960	2,083	89	2,073	4,883		
59	NV	851	20	356	1,756	975	24	521	1,279		
60	Pac.	61,483	2,518	53,724	258,280	65,362	2,650	71,469	165,503		
61	WA	6,788	291	6,681	34,665	7,630	310	8,842	19,016		
62	OR	5,659	185	3,783	17,897	6,353	203	4,767	11,610		
63	CA	47,625	2,005	42,630	199,695	49,930	2,104	57,148	132,638		
64	AK	445	13	270	2,580	427	11	272	834		
65	HI	966	24	360	3,443	1,022	22	440	1,405		

¹ Includes central administrative offices and auxiliary units. ² Includes employment and payroll at administrative offices and auxiliary units. ³ All employees represents the average of production workers plus all other employees for the payroll period ended nearest the 12th of March. Production workers represents the average of the employment for the payroll periods ended nearest the 12th of March, May, August, and November.

by State: 1982 to 1990

because U.S. and State figures were independently derived]

1990					
All employees ²		Production workers ²		Value added by manufacturer ⁴ (mil. dol.)	Value of shipments ⁵ (mil. dol.)
Number ³ (1,000)	Payroll	Number ³ (1,000)	Wages (mil. dol.)		
Amount (mil. dol.)	Per employee (dol.)				
18,840	532,317	28,254	12,129	272,068	1,326,362
4,002	119,838	29,944	2,370	54,093	273,541
1,215	36,515	30,061	715	16,643	78,765
103	2,499	24,265	76	1,628	5,886
92	2,554	27,675	58	1,344	5,569
44	1,236	28,082	29	615	3,233
529	16,321	30,835	301	7,122	35,102
101	2,364	23,404	67	1,237	5,149
345	11,541	33,441	184	4,696	23,826
2,787	83,323	29,893	1,655	37,451	194,776
1,150	35,145	30,555	655	14,697	85,532
627	20,353	32,451	340	7,986	45,179
1,010	27,826	27,550	660	14,768	64,065
5,553	166,888	30,053	3,612	90,544	396,725
4,169	129,372	31,029	2,730	71,161	297,974
1,085	33,318	30,705	711	18,798	80,377
616	18,920	30,739	438	10,982	44,924
1,008	30,515	30,282	619	15,002	70,784
913	31,699	34,716	590	17,803	64,799
548	14,920	27,226	371	8,577	37,090
1,384	37,516	27,111	882	19,382	98,751
395	11,790	29,885	225	5,026	25,804
230	6,012	26,092	158	3,636	19,503
423	11,557	27,340	266	5,807	30,255
16	351	21,540	11	193	1,110
30	564	18,997	22	369	1,630
99	2,296	23,126	71	1,418	7,450
191	4,946	25,909	129	2,933	12,998
5,942	146,361	24,630	4,154	82,525	423,958
3,058	74,584	24,388	2,119	41,024	205,326
66	2,486	37,781	30	816	4,512
212	6,357	29,973	123	3,055	15,724
14	541	36,369	4	115	1,573
423	10,683	25,262	303	6,158	32,511
82	2,262	27,512	59	1,468	6,342
832	18,315	22,019	619	10,930	57,674
368	6,348	22,686	276	5,224	21,075
564	13,210	23,443	401	7,661	36,123
498	12,982	24,867	304	5,596	29,793
1,384	31,141	22,505	1,050	19,943	88,029
279	7,013	25,155	211	4,457	23,629
504	11,407	22,647	369	6,966	30,245
368	8,194	22,277	283	5,401	21,362
233	4,527	19,394	187	3,120	12,793
1,500	40,636	27,084	986	21,558	130,604
219	4,359	19,905	172	2,973	12,468
171	4,812	28,106	123	3,060	22,617
168	4,492	26,759	109	2,399	11,889
943	26,983	26,623	582	13,126	83,630
3,343	99,230	28,687	1,993	44,906	232,138
619	17,039	27,531	375	8,149	41,529
20	450	22,515	13	298	1,190
61	1,508	24,762	45	936	3,928
10	248	24,265	7	149	844
180	5,528	30,727	104	2,519	13,819
40	862	21,599	28	509	2,252
181	5,321	29,414	98	2,187	11,916
102	2,494	24,572	64	1,210	6,111
26	628	24,543	17	340	1,470
2,724	82,192	30,178	1,618	36,757	190,609
367	11,344	30,886	211	5,082	24,871
216	5,657	26,178	153	3,373	13,213
2,106	64,352	30,558	1,230	27,772	149,578
14	362	26,603	11	268	1,390
21	477	23,029	13	263	1,558

⁴ For definition, see footnote 6, table 1243.⁵ See footnote 7, table 1243.Source: U.S. Bureau of the Census, *Census of Manufactures, 1982* and *1987* and *Annual Survey of Manufactures*.

No. 1247. Average Hourly Earnings of Production Workers in Manufacturing Industries, by State: 1980 to 1990

[In dollars]

REGION, DIVISION, AND STATE	1980	1984	1985	1986	1987	1988	1989	1990
U.S.	7.27	9.18	9.54	9.73	9.91	10.19	10.48	10.83
Northeast:								
New England:								
ME	6.00	8.05	8.40	8.65	8.77	9.31	9.92	10.59
NH	5.87	7.85	8.39	8.77	9.29	9.97	10.37	10.83
VT	6.14	8.03	8.41	8.83	9.12	9.47	9.99	10.52
MA	6.51	8.50	9.00	9.24	9.77	10.40	10.87	11.39
RI	5.59	7.23	7.59	7.90	8.20	7.64	9.06	9.45
CT	7.08	9.22	9.57	10.07	10.46	10.78	11.21	11.53
Middle Atlantic:								
NY	7.18	9.22	9.67	9.92	10.09	10.43	10.67	11.11
NJ	7.31	9.50	9.86	10.12	10.40	10.86	11.17	11.76
PA	7.59	9.28	9.57	9.74	9.98	10.33	10.66	11.04
Midwest:								
East North Central:								
OH	8.57	10.96	11.38	11.56	11.73	12.00	12.26	12.64
IN	8.49	10.45	0.00	10.81	0.00	10.00	11.70	12.03
IL	8.02	10.08	10.37	10.67	10.85	10.98	11.21	11.44
MI	9.52	12.18	12.64	12.80	12.97	13.31	13.51	13.86
WI	8.03	10.03	10.26	10.35	10.55	10.61	10.77	11.11
West North Central:								
MN	7.61	9.75	10.05	10.20	10.37	10.59	10.95	11.23
IA	8.67	10.25	10.32	10.35	10.62	10.56	10.82	11.27
MO	7.26	9.32	9.57	9.83	10.00	10.24	10.49	10.74
ND	6.56	7.86	8.05	8.19	8.43	8.36	8.80	9.27
SD	6.50	7.15	7.43	7.75	7.92	8.09	8.30	8.48
NE	7.38	8.93	9.02	9.26	9.33	9.38	9.53	9.66
KS	7.37	9.40	9.45	9.76	9.97	10.24	10.68	10.94
South:								
South Atlantic:								
DE	7.58	9.30	9.86	10.05	10.67	11.49	12.36	12.39
MD	7.61	9.45	9.73	9.81	10.11	10.71	11.19	11.57
DC	8.46	10.10	10.48	10.40	10.73	11.10	11.79	12.51
VA	6.22	8.12	8.51	8.83	9.14	9.37	9.69	10.07
WV	8.08	9.93	10.24	10.36	10.55	10.81	11.17	11.53
NC	5.37	7.01	7.29	7.54	7.84	8.12	8.42	8.79
SC	5.59	7.28	7.61	7.92	8.10	8.30	8.54	8.84
GA	5.77	7.58	8.10	8.35	8.49	8.65	8.87	9.17
FL	5.98	7.62	7.86	8.02	8.16	8.39	8.67	8.98
East South Central:								
KY	7.34	9.28	9.53	9.86	10.02	10.16	10.37	10.70
TN	6.08	7.93	8.29	8.58	8.78	8.96	9.22	9.55
AL	6.49	7.97	8.48	8.64	8.76	8.95	9.10	9.39
MS	5.44	6.95	7.22	7.46	7.59	7.83	8.03	8.37
West South Central:								
AR	5.71	7.31	7.57	7.76	7.88	8.07	8.26	8.51
LA	7.74	10.06	10.43	10.60	10.90	10.94	11.13	11.61
OK	7.36	9.64	9.86	9.80	10.14	10.35	10.48	10.73
TX	7.15	9.04	9.41	9.85	9.85	9.97	10.25	10.47
West Mountain:								
MT	8.78	10.74	10.95	10.94	10.61	10.68	11.15	11.51
ID	7.55	9.34	9.41	9.66	9.75	10.00	10.21	10.60
WY	7.01	8.86	9.64	9.68	9.75	10.27	10.58	10.83
CO	7.63	9.24	9.52	9.82	10.05	10.38	10.44	10.94
NM	5.79	7.97	8.41	8.75	8.74	8.87	8.74	9.04
AZ	7.29	9.09	9.48	9.88	9.97	9.85	9.92	10.21
UT	7.02	8.95	9.64	9.98	9.96	10.11	10.14	10.32
NV	7.72	9.12	9.15	9.36	9.76	10.08	10.33	11.05
Pacific:								
WA	(NA)	(NA)	11.63	11.65	11.73	11.90	12.12	12.61
OR	8.65	10.44	10.50	10.57	10.56	10.60	10.81	11.15
CA	7.70	9.77	10.12	10.36	10.75	10.80	11.16	11.48
AK	10.22	12.25	12.19	11.62	11.79	11.98	12.01	12.46
HI	6.83	8.35	8.65	8.86	9.30	9.84	10.37	10.99

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

No. 1248. Finances of Manufacturing Corporations: 1970 to 1990

[In billions of dollars. Beginning 1986, data exclude estimates for corporations with less than \$250,000 in assets at time of sample selection. Prior period includes estimates for corporations in this size category. See table 874 for individual industry data]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Net sales	709	1,065	1,897	2,145	2,039	2,114	2,335	2,331	2,221	2,378	2,596	2,745	2,811
Net operating profit	50	77	129	144	105	125	159	138	125	159	190	182	173
Net profit:													
Before taxes	48	80	145	158	108	133	166	137	129	173	216	189	160
After taxes	29	49	92	101	71	86	108	88	83	116	155	136	112
Cash dividends	15	20	36	40	41	42	45	46	46	50	57	65	62
Net income retained in business	14	29	58	61	30	44	63	42	37	66	98	71	49

Source: Through 1981, U.S. Federal Trade Commission; thereafter, U.S. Bureau of the Census. *Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations*.

No. 1249. Capital in Manufacturing Establishments: 1980 to 1989

[In billions of dollars, except percent. Minus sign (-) indicates decline. Data refer to privately owned manufacturing establishments and are based on the capital expenditures data from the Census of Manufactures, the Annual Survey of Manufactures, and the inventory investment component of GNP. For details, see source]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS					
	1980	1985	1986	1987	1988	1989	1980	1985	1986	1987	1988	1989
Purchases of equipment and structures	75.3	83.7	76.9	78.8	88.9	104.0	86.8	84.6	75.5	74.6	81.4	90.9
Percent equipment	80.4	80.0	80.6	81.1	81.7	80.6	80.4	82.4	82.9	83.4	83.8	82.9
Depreciation (straight line) ¹	53.1	74.2	78.4	81.7	84.7	88.6	62.0	72.2	74.3	75.8	77.2	78.7
Percent equipment	78.7	78.6	79.0	78.9	79.0	78.8	78.9	80.4	80.8	81.1	81.3	81.6
Net investment ²	22.2	9.5	-1.5	-2.9	4.2	15.4	24.9	12.4	1.1	-1.2	4.2	12.2
Net stock, end of year ¹	944.6	1,145.1	1,174.1	1,215.6	1,276.7	1,339.9	1,034.0	1,078.6	1,076.0	1,083.4	1,096.2	1,113.6
Equipment and structures.	633.9	811.7	845.8	872.1	906.9	957.2	707.2	758.0	760.5	760.6	766.4	780.0
Percent equipment	67.0	66.8	67.4	67.3	67.9	67.8	67.4	68.7	69.0	69.3	69.7	70.1
Inventories	310.7	333.4	328.3	343.5	369.9	382.7	326.8	320.6	315.5	322.7	329.8	333.6

¹ Depreciation and net stock estimates for equipment and structures are derived using the perpetual inventory method and the straight-line depreciation formula. ² Represents the difference between purchases and depreciation.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82, Fixed Reproducible Tangible Wealth in the United States, 1925-85*, and *Survey of Current Business*, July 1987, August 1987, July 1989, August 1989, July 1990, and August 1990.

No. 1250. Manufacturers' Shipments, Inventories, and Orders: 1950 to 1991

[In billions of dollars, except ratio. See also *Historical Statistics, Colonial Times to 1970*, series P 74-92]

YEAR	Shipments, total, total (Dec. 31) ¹	Inven-tories, total, total (Dec. 31)	Ratio of inven-tories to ship- ments ²	New orders, total, (Dec. 31)	Unfilled orders, total, (Dec. 31)	YEAR	Shipments, total, total (Dec. 31)	Inven-tories, total, total (Dec. 31) ¹	Ratio of inven-tories to ship- ments ²	New orders, total, (Dec. 31)	Unfilled orders, total, (Dec. 31)	
1950.	224	32	1.41	242	41	1971.	671	102	1.76	672	107	
1951.	261	39	1.78	287	67	1972.	756	108	1.58	770	120	
1952.	270	42	1.71	279	76	1973.	875	124	1.63	913	158	
1953.	298	44	1.90	283	60	1974.	1,018	158	1.86	1,047	187	
1954.	280	42	1.71	268	48	1975.	1,039	160	1.77	1,023	171	
1955.	318	45	1.63	330	60	1976.	1,186	175	1.66	1,194	180	
1956.	393	51	1.74	340	68	1977.	1,358	188	1.58	1,391	202	
1957.	345	52	1.90	331	53	1978.	1,523	209	1.55	1,560	259	
1958.	327	50	1.75	324	47	1979.	1,727	239	1.61	1,771	303	
1959.	363	53	1.68	369	52	1980.	1,853	262	1.61	1,876	326	
1960.	371	54	1.79	363	45	1981.	2,018	280	1.74	2,015	323	
1961.	371	55	1.67	373	47	1982.	1,960	307	1.91	1,947	309	
1962.	400	58	1.76	401	48	1983.	2,071	308	1.80	2,105	343	
1963.	421	60	1.66	426	53	1984.	2,288	334	1.76	2,315	370	
1964.	448	63	1.62	460	65	1985.	2,334	330	1.72	2,348	384	
1965.	492	68	1.58	505	79	1986.	2,336	318	1.66	2,342	390	
1966.	538	78	1.70	557	97	1987.	2,475	333	1.64	2,513	427	
1967.	558	84	1.71	565	104	1988.	2,682	361	1.64	2,724	469	
1968.	603	90	1.76	608	110	1989.	2,840	377	1.62	2,889	518	
1969.	642	98	1.81	647	115	1990.	2,917	382	1.60	2,924	524	
1970.	634	101	1.91	625	106	1991.	2,864	369	1.57	2,847	508	

¹ Beginning in 1982 inventories are stated at current cost and are not comparable to the book value estimates for prior years. ² Ratio based on December seasonally adjusted data.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufacturers' Shipments, Inventories, and Orders: 1982-1990*, series M3; and monthly press releases.

No. 1251. Value of Manufactures Shipments and Inventories—Selected Industries:
1980 to 1989

[In billions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series P 74-79]

SIC ¹ code	INDUSTRY	1980	1984	1985	1986	1987	1988	1989
(X)	Shipments, total	1,852.7	2,254.4	2,280.2	2,260.3	2,390.0	2,611.6	2,781.4
(X)	Durable goods industries ²	930.6	1,159.5	1,188.2	1,199.9	1,263.5	1,388.2	1,472.0
32	Stone, clay, and glass products	46.1	53.4	55.1	57.3	62.1	64.0	64.8
33	Primary metals	133.9	119.1	110.5	105.6	117.1	142.2	145.4
34	Fabricated metal products	116.2	135.9	139.6	138.0	135.0	144.1	162.6
35	Machinery, exc. electrical ²	180.7	210.4	215.2	208.5	216.6	247.2	266.0
351	Engines and turbines	13.7	15.5	14.9	14.1	14.4	16.1	13.7
353	Construction, mining ³	33.6	27.1	27.7	25.9	25.8	29.9	33.6
357	Office and computing machines	32.4	59.7	62.2	58.8	61.2	67.9	70.1
36	Electrical machinery ²	128.6	187.6	193.4	196.2	210.7	227.1	239.6
361-2	Elec. transmission and distrib.	21.3	24.7	24.7	24.6	25.9	27.6	29.8
363	Household appliances	12.9	16.3	16.2	16.6	18.0	18.1	19.4
365	Radio and TV	8.5	9.9	11.4	11.9	11.5	11.7	12.5
366	Communication equipment	36.0	56.7	65.4	67.4	70.8	74.5	78.1
367	Electronic components	27.6	48.0	42.9	42.0	47.1	54.7	58.1
37	Transportation equipment ²	186.5	281.2	301.4	313.8	323.0	351.9	372.9
371	Motor vehicles and parts	104.6	179.3	188.5	191.6	197.0	219.3	232.9
372, 6	Aircraft, missiles, and parts	58.5	78.8	90.8	101.0	103.7	107.6	113.7
38	Instruments and related products ²	44.1	59.4	61.0	61.9	66.8	72.5	77.0
381-4	Scientific and engineering equip.	25.6	38.3	40.6	40.8	44.7	46.9	51.2
(X)	Nondurable goods industries ²	922.1	1,095.0	1,092.0	1,060.5	126.0	1,223.4	1,309.3
20	Food and kindred products ²	256.2	300.0	301.6	308.5	325.0	356.8	388.1
208	Beverages	33.0	41.2	43.2	45.6	44.9	47.8	50.5
21	Tobacco products	12.2	17.4	16.5	18.1	19.9	22.2	24.1
22	Textile mill products	47.3	55.5	53.3	55.3	57.5	59.8	63.5
26	Paper and allied products ²	72.8	94.8	93.4	97.9	110.3	124.4	130.4
261-3,	Paper, pulp, paperboard mill products	31.8	41.4	39.2	41.0	47.0	55.2	57.7
6	Paperboard containers	17.2	22.6	22.7	23.1	26.8	30.6	32.3
285	Chemicals and allied products ²	162.5	198.2	197.3	197.1	212.7	240.5	255.5
28	Industrial inorganic chemicals	57.3	61.5	59.5	54.1	59.5	67.8	68.9
281	Drugs, soaps, toiletries	41.9	57.5	60.9	65.8	67.1	73.1	82.0
283-4	Petroleum and coal products	198.7	189.0	179.1	124.9	124.5	124.2	138.5
29	Rubber and plastics products	47.3	69.5	71.3	73.4	80.5	91.1	95.8
(X)	Inventories, total (Dec. 31)	261.7	329.6	322.4	311.1	325.7	348.5	364.8
(X)	Durable goods industries ²	172.2	214.5	209.9	204.2	212.3	229.0	241.3
32	Stone, clay, and glass products	5.8	7.1	7.0	7.0	7.1	7.4	7.7
33	Primary metals	23.1	21.9	19.5	17.6	18.0	20.2	20.5
34	Fabricated metal products	19.2	22.6	21.9	21.4	22.4	23.1	23.0
35	Machinery, exc. electrical ²	40.3	47.4	44.6	41.2	41.1	45.8	47.1
351	Engines and turbines	2.6	3.0	2.6	2.5	2.5	2.8	2.7
353	Construction, mining ³	9.2	9.1	7.7	6.8	6.5	7.6	7.4
357	Office and computing machines	8.4	13.2	11.9	10.4	10.5	11.8	12.5
36	Electrical machinery ²	25.4	37.6	37.6	37.5	38.4	39.7	39.8
361-2	Elec. transmission and distrib.	4.1	5.3	5.0	4.8	4.8	5.1	5.1
363	Household appliances	1.8	2.7	2.5	2.6	2.7	2.7	2.8
365	Radio and TV	1.3	1.4	1.3	1.4	1.3	1.4	1.8
366	Communication equipment	8.8	14.7	15.6	15.8	16.1	15.6	15.5
367	Electronic components	5.4	8.0	7.6	7.2	7.7	8.7	8.5
37	Transportation equipment ²	35.3	49.5	50.9	50.9	55.9	61.7	71.0
371	Motor vehicles and parts	9.6	11.6	11.7	11.1	11.4	11.8	11.8
372, 6	Aircraft, missiles, and parts	21.7	34.4	35.9	36.4	40.8	45.9	54.7
38	Instruments and related products ²	8.8	12.2	12.4	12.2	12.3	13.7	13.7
381-4	Scientific and engineering equip.	6.0	8.9	9.1	9.2	9.2	10.1	10.2
(X)	Nondurable goods industries ²	89.5	115.1	112.5	106.9	113.4	119.4	123.5
20	Food and kindred products ²	22.4	24.4	24.0	24.0	25.2	26.9	26.9
208	Beverages	3.8	4.4	4.6	4.8	4.5	4.5	4.2
21	Tobacco products	3.9	6.9	6.2	5.9	5.9	5.9	5.7
22	Textile mill products	6.5	7.5	7.0	6.9	7.2	7.3	7.8
26	Paper and allied products ²	7.7	10.1	9.9	10.2	11.1	11.9	12.5
261-3,	Paper, pulp, paperboard mill products	2.9	3.8	3.8	3.7	3.9	4.3	5.0
6	Paperboard containers	1.9	2.7	2.5	2.6	2.9	3.2	3.2
285	Chemicals and allied products ²	19.6	25.5	25.1	24.2	24.8	27.3	28.7
28	Industrial inorganic chemicals	6.5	8.0	7.5	6.6	6.6	7.2	8.0
281	Drugs, soaps, toiletries	5.9	7.5	7.7	8.1	8.7	9.3	9.6
283-4	Petroleum and coal products	9.9	14.3	13.9	9.2	9.9	8.8	10.2
29	Rubber and plastics products	6.0	8.2	8.4	8.3	8.0	10.1	10.4

X Not applicable. ¹ Standard Industrial Classification. ² Includes industries not shown separately. ³ Also includes material handling industries.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufactures' Shipments, Inventories, and Orders: 1982-1988*, series M3-1.86 M3-1(88), and monthly press releases.

No. 1252. Industrial Production Indexes, by Industry: 1970 to 1991

[1987 = 100. Based on 1977 Standard Industrial Classification Manual; see text, section 6. See also Historical Statistics, Colonial Times to 1970, series P 13 and P 18-39]

SIC ¹ code	MAJOR INDUSTRY GROUP	1970	1975	1980	1983	1984	1985	1986	1988	1989	1990	1991
(X)	Industrial production	61.4	66.3	84.1	84.9	92.8	94.4	95.3	105.4	108.1	109.2	107.1
(X)	Manufacturing	56.4	61.1	76.8	80.9	89.3	91.6	94.3	105.8	108.9	109.9	107.4
(X)	Durable goods	53.3	56.7	75.7	76.8	88.4	91.8	93.9	107.6	110.9	111.6	107.1
24	Lumber and products	66.7	66.5	76.9	79.9	86.0	88.0	95.1	104.6	103.0	101.6	94.2
25	Furniture and fixtures	55.6	59.4	78.5	79.6	87.9	88.1	92.5	103.6	105.3	105.9	99.1
32	Clay, glass, and stone products	71.1	77.8	92.0	87.2	94.2	93.8	97.1	106.4	108.0	105.7	94.6
33	Primary metals	115.2	107.2	110.8	91.0	102.4	101.8	93.8	110.3	109.2	108.4	99.5
34	Fabricated metal products	75.9	76.7	92.5	85.5	93.3	94.5	93.8	106.2	107.2	105.9	100.4
35	Nonelectrical machinery	32.8	38.1	60.6	64.3	80.8	86.8	90.4	113.8	121.8	126.5	123.5
36	Electrical machinery	40.5	45.1	73.3	80.3	94.1	93.1	94.3	106.5	109.5	111.4	110.1
37	Transportation equipment	55.5	59.7	72.3	72.7	83.1	91.8	96.9	105.0	107.2	105.5	98.6
38	Instruments	38.8	52.4	78.8	83.2	92.1	95.7	95.1	110.1	116.4	116.8	118.2
(X)	Nondurable goods	61.1	67.7	83.1	87.0	90.8	91.5	94.9	103.6	106.4	107.8	107.9
20	Food	64.0	71.4	84.6	90.1	92.1	94.9	97.4	102.8	105.5	107.6	108.6
21	Tobacco products	90.6	97.8	103.6	97.1	97.2	97.3	95.8	101.4	99.7	98.6	99.7
22	Textile mill products	74.4	77.7	92.1	93.2	93.7	89.7	93.9	99.8	101.9	100.8	100.5
26	Paper and products	62.9	65.9	83.1	88.0	93.5	92.2	97.1	102.9	103.2	105.3	105.1
27	Printing and publishing	52.7	53.7	70.3	78.0	84.5	87.6	90.7	103.6	108.5	111.9	112.3
28	Chemicals and products	55.9	69.1	87.8	87.5	91.4	91.4	94.6	105.4	108.5	110.3	110.9
29	Petroleum products	83.9	91.5	99.0	88.6	92.8	92.6	98.9	103.4	106.1	108.2	107.5
30	Rubber and plastics products	37.6	47.4	61.7	74.3	83.8	85.8	90.8	105.9	108.9	110.2	110.0
31	Leather and products	208.0	182.5	161.7	140.9	126.5	112.5	102.6	99.6	103.7	100.0	88.1
(X)	Mining	100.4	98.0	110.0	104.8	111.9	109.0	101.0	101.8	100.5	102.6	101.1
(X)	Utilities	72.9	84.3	95.9	93.6	97.0	99.5	96.3	104.4	107.1	108.0	109.2

X Not applicable. ¹ Standard Industrial Classifications.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

No. 1253. Index of Manufacturing Capacity: 1950 to 1991

[1987 output = 100. Annual figures are averages of quarterly data. Capacity represents estimated quantity of output, relative to output in 1967, which the current stock of plant and equipment in manufacturing industries was capable of producing. Primary processing industries comprise textiles, lumber, paper and pulp, petroleum, rubber, stone, clay, glass, primary metals, fabricated metals, and a portion of chemicals. Advanced processing industries comprise chemical products, food, beverages, tobacco, apparel, furniture, printing and publishing, leather, machinery, transportation equipment, instruments, ordnance, and miscellaneous industry groups]

YEAR	Index of capacity	RELATION OF OUTPUT TO CAPACITY (percent)			YEAR	Index of capacity	RELATION OF OUTPUT TO CAPACITY (percent)		
		All manufacturing	Primary processing	Advanced processing			All manufacturing	Primary processing	Advanced processing
1950.....	29	83	88	80	1984.....	111	80	80	80
1955.....	36	87	92	84	1985.....	115	80	80	79
1960.....	44	80	80	80	1986.....	119	79	81	78
1965.....	54	90	91	89	1987.....	123	81	85	80
1970.....	71	80	80	79	1988.....	126	84	88	82
1975.....	84	73	73	74	1989.....	130	84	87	83
1980.....	98	80	78	81	1990.....	134	82	85	81
1981.....	102	79	78	79					
1982.....	105	73	69	75	1991: 1st qtr ..	136	78	79	77
1983.....	108	75	75	75	2d qtr ..	137	78	79	77

Source: Board of Governors of the Federal Reserve System, *Industrial Production and Capacity Utilization*, G.17(419). (Based on data from Federal Reserve Board, U.S. Dept. of Commerce, U.S. Bureau of Labor Statistics, and McGraw-Hill Information Systems Company, New York, NY; and other sources.)

No. 1254. Large Manufacturing Companies—Adequacy of Capital Facilities: 1970 to 1989

[Percent distribution. As of July. Number of companies weighted by company assets. Based on replies to the question, "In view of the current rate of order bookings and customer inquiries, are your plant-and-equipment facilities now: Inadequate, Sufficient, or More than adequate?," as part of a quarterly survey conducted among the 1,000 largest manufacturing companies as listed by total assets]

YEAR	Inadequate	Sufficient	More than adequate	YEAR	Inadequate	Sufficient	More than adequate
1970.....	28	60	12	1984.....	8	55	37
1975.....	19	43	38	1985.....	10	52	38
1980.....	12	57	31	1986.....	8	55	37
1981.....	9	51	40	1987.....	8	71	21
1982.....	8	45	47	1988.....	12	74	14
1983.....	6	48	46	1989.....	12	69	19

Source: The Conference Board, New York, NY, *Quarterly Survey of Capital Investment and Supply Conditions in Manufacturing*, (copyright).

No. 1255. Large Manufacturing Companies—Capital Appropriations and Expenditures, by Industry: 1980 to 1989

[In millions of dollars. Based on reports submitted by the 1,000 largest manufacturing companies listed by total assets responding to The Conference Board's *Quarterly Survey of Capital Appropriations*. Appropriations: Authorizations by management to spend funds for new plant and equipment; expenditures: Cost of new plant and equipment]

INDUSTRY	APPROPRIATIONS					EXPENDITURES				
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
Total	103,579	108,855	119,168	157,195	165,366	87,007	99,358	103,935	132,448	146,331
Food and beverages	6,650	8,139	10,180	20,977	24,151	6,017	6,535	9,357	16,069	15,327
Paper and allied products	3,515	3,200	7,908	14,608	13,197	3,839	3,951	5,407	7,555	10,754
Chemicals and allied products	12,160	11,528	14,272	17,009	22,907	10,906	10,610	11,624	15,717	20,242
Petroleum and coal products	33,597	25,823	15,841	15,647	18,498	22,044	21,866	14,298	14,461	13,687
Primary iron and steel	2,890	1,943	2,693	3,920	4,529	3,525	2,551	1,629	2,490	3,150
Elec. mach. and equip.	6,519	8,284	22,297	30,902	28,686	6,183	9,185	18,698	27,616	30,424
Machinery, except electrical	8,891	11,446	8,689	7,100	7,615	9,301	10,222	6,608	6,977	7,242
Motor vehicles and equipment	7,012	11,849	6,584	8,732	9,264	5,558	10,275	9,104	9,559	10,479
Other transportation equipment	3,633	5,835	6,220	6,078	7,860	3,744	5,163	5,822	5,702	7,217
Instruments and photo. equip.	3,153	4,008	3,913	4,257	2,900	2,873	3,786	3,536	4,815	2,816
Rubber products	873	4,744	1,608	2,325	4,980	803	3,439	1,361	2,385	3,085
Other manufacturing	14,686	12,056	19,563	25,640	20,779	12,214	11,775	16,491	19,122	21,908

Source: The Conference Board, New York, NY, *Quarterly Survey of Capital Appropriations*, (copyright).

No. 1256. U.S. Share of World Exports of Manufactures: 1980 to 1990

[World exports—exports from 15 major trading countries: United States, Austria, Belgium-Luxembourg, Canada, Denmark, France, West Germany, Italy, Japan, Netherlands, Norway, Sweden, Switzerland, and United Kingdom. Percents are calculated from the values of exports of the 5 commodity groups from each of the 15 countries. Percentage shares are based on dollar values calculated at current exchange rates. Details are reported according to the United Nations Standard International Trade Classification (SITC), Revision 2 (1980-87), Revision 3 (1988 —).]

PRODUCT CATEGORY	TOTAL (bil. dol.)						PERCENT OF WORLD EXPORTS				
	1980	1985	1987	1988	1989	1990	1980	1985	1987	1988	1989
Total	147.2	150.7	179.4	225.5	275.0	300.3	16.8	16.7	13.9	15.1	17.1
Machinery	57.1	62.7	73.0	94.6	112.2	119.7	21.4	21.4	17.2	18.9	20.6
Transport equipment	28.9	35.2	40.6	47.8	55.2	62.9	18.3	18.7	15.5	16.6	17.9
Chemicals	20.8	21.5	26.7	32.7	38.0	39.5	17.9	17.9	15.3	16.0	18.0
Basic manufactures ¹	23.3	15.0	18.0	23.8	31.6	33.9	10.1	7.9	6.9	7.8	9.6
Misc. articles ³	17.0	16.3	21.1	26.7	38.1	43.1	16.0	14.6	12.4	13.6	17.8

¹ Represents manufactures exports. Excludes mineral fuel products, processed food, fats, oils, firearms of war, and ammunition. ² Includes semimanufactures of various materials, such as metals, fibers, wood, glass, leather, rubber, and certain finished products of metal. ³ Includes mainly nondurable consumer goods and professional and scientific instruments.

Source: U.S. Dept. of Commerce, International Trade Administration, Office of Finance, Industry, and Trade Information; *Business America*, biweekly; and unpublished data.

No. 1257. Foreign Direct Investment Position in the United States for Manufacturing: 1989 and 1990

[In millions of dollars. Minus sign (-) indicates a negative position. See table 1321]

AREA OR COUNTRY	TOTAL ¹		FOOD PRODUCTS		CHEMICALS AND ALLIED PRODUCTS		PRIMARY AND FABRICATED METALS		MACHINERY	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
All countries ²	151,820	159,998	24,054	22,875	36,997	41,678	13,583	17,596	30,673	29,677
Canada	9,934	9,327	894	392	452	508	2,034	1,816	1,953	1,875
Europe ²	120,132	125,568	22,070	21,256	32,082	34,604	8,461	12,504	23,856	22,586
France	11,355	14,692	1,369	1,631	2,995	4,016	(D)	(D)	(D)	(D)
Netherlands	23,709	24,446	6,744	7,267	7,557	8,126	1,186	1,495	4,723	4,454
United Kingdom	51,789	52,955	10,481	8,793	8,507	8,882	2,482	4,914	8,800	7,943
Sweden	3,783	4,938	-	-	512	589	200	170	2,223	3,209
Switzerland	10,412	9,113	(D)	(D)	3,167	2,656	(D)	(D)	3,362	2,057
Germany ³	15,722	15,216	589	91	8,318	8,552	1,033	1,121	2,779	2,962
Africa	(D)	(D)	4	2	161	(D)	(D)	(D)	2	4
Latin America	4,815	5,619	54	32	1,932	1,821	-348	-156	28	-41
Middle East	(D)	(D)	-	7	(D)	(D)	(D)	(D)	8	9
Asia and Pacific ²	16,365	18,801	1,031	1,193	2,363	4,483	3,041	3,023	4,828	5,244
Japan	13,978	15,169	641	662	2,272	3,918	2,248	2,090	4,150	4,210

¹ Represents or rounds to zero. ² Withheld to avoid disclosure of data of individual companies. ³ Includes other manufacturing, not shown separately. ² Includes other countries, not shown separately. ³ For 1989, includes only the Federal Republic of Germany. For 1990, also includes the former German Democratic Republic (GDR). This change has no effect on the data because, prior to 1990, there were no U.S. affiliates of the former GDR.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, October 1984 and August 1991 issues.

No. 1258. Employment Related to Manufactured Exports, by Industry: 1977 to 1987

[Total employment related to manufactured exports is the sum of employment directly calculated for the plants shipping the exported product, the supplying industries and service organizations and the central administrative offices and auxiliaries. For manufacturing industries, employment is limited to paid employees in manufacturing plants, while for nonmanufacturing it includes an estimate for working proprietors and partners]

INDUSTRY	EMPLOYMENT RELATED TO MANUFACTURED EXPORTS								CIVILIAN EMPLOYMENT (1,000)			
	Employees(1,000)				Percent of civilian employment							
	1977	1980	1985	1987	1977	1980	1985	1987	1977	1980	1985	1987
U.S.	3,258	4,808	4,413	5,573	3.6	4.8	4.0	4.9	89,368	100,260	110,136	114,840
Manufacturing	1,990	2,639	2,295	2,771	10.2	12.8	12.2	14.7	19,590	20,647	18,788	18,900
Nonmfng	1,268	2,170	2,118	2,802	1.8	2.7	2.3	2.9	69,779	79,613	91,348	95,940
Trade	489	845	949	1,207	2.9	4.3	4.3	5.3	16,653	19,737	21,999	22,922
Business serv.	215	575	227	317	1.3	3.3	1.1	1.4	16,750	17,245	21,139	23,048
Transp.	185	305	282	379	3.9	4.8	4.6	6.1	4,797	6,369	6,155	6,223
Agriculture	129	144	127	146	4.2	4.5	3.7	4.3	3,044	3,225	3,423	3,425
Mining	34	69	50	64	4.6	7.3	4.9	7.3	747	947	1,016	871
Other	216	233	483	689	0.8	0.7	1.3	1.7	27,788	32,090	37,816	39,451

¹ Includes communications and utilities.

No. 1259. Manufacturing Establishments—Export-Related Shipments and Employment, 1977 to 1987, and by Industry, 1987

[The export-related employment data shown do not include the jobs involved in the export of nonmanufactured goods and various services sold to foreign buyers. Thus, jobs in the manufacturing sector that relate to the export of nonmanufactured goods are excluded from the estimates. In addition, all of the indirect exports being reported are domestically produced; that is, they exclude imports. See source for further details on methodology]

SIC ¹ code	INDUSTRY GROUP	MANUFACTURER'S SHIPMENT VALUE				MANUFACTURING EMPLOYMENT			
		Total ² (bil. dol.)	Export related		Export related as per- cent of ship- ments	Total (1,000)	Export related		Export related as per- cent of total employ- ment
			Total (bil. dol.)	Direct exports ³ (bil. dol.)			Total (1,000)	Direct exports ⁴ (1,000)	
(X) 1977.....		1,358.4	142.4	85.8	10.4	19,590	1,990	1,106	10.2
(X) 1980.....		1,852.7	249.8	151.2	13.5	20,647	2,639	1,486	12.8
(X) 1981.....		2,017.5	271.7	164.3	13.4	20,264	2,604	1,486	12.9
(X) 1983.....		2,055.3	246.4	141.6	12.0	18,737	2,173	1,118	11.6
(X) 1984.....		2,253.8	268.3	151.0	11.9	19,141	2,179	1,083	11.4
(X) 1985.....		2,278.9	286.7	156.9	12.6	18,788	2,295	1,083	12.2
(X) 1986.....		2,260.3	294.3	159.4	13.0	18,371	2,318	1,061	12.6
(X) 1987, total		2,475.9	378.8	193.6	15.3	18,900	2,771	1,185	14.7
20 Food and kindred products		329.7	17.7	12.8	5.4	1,449	68	50	4.7
21 Tobacco products		20.8	2.9	2.5	13.8	45	8	7	17.4
22 Textile mill products		62.8	5.5	2.1	8.7	672	54	18	8.1
23 Apparel, other textile products		64.2	2.6	1.8	4.1	1,081	30	18	2.8
24 Lumber and wood products		69.7	6.9	3.6	9.9	698	54	23	7.7
25 Furniture and fixtures		37.5	1.2	0.6	3.2	511	15	6	2.9
26 Paper and allied products		109.0	16.0	5.0	14.7	611	82	19	13.4
27 Printing and publishing		136.2	6.7	1.1	4.9	1,494	68	11	4.6
28 Chemical and allied products		229.5	43.7	25.6	19.1	814	139	83	17.1
29 Petroleum and coal products		130.4	13.3	3.3	10.2	116	10	4	9.0
30 Rubber, misc. plastics products		86.6	12.9	4.0	14.8	831	119	33	14.3
31 Leather, leather products		9.1	1.0	0.8	10.6	129	7	5	5.7
32 Stone, clay, glass products		61.5	4.9	1.8	8.0	524	42	14	7.9
33 Primary metal industries		120.2	33.4	4.7	27.8	701	192	14	27.3
34 Fabricated metal products		147.4	22.2	6.1	15.1	1,458	223	56	15.3
35 Machinery, except electric		217.7	61.5	39.1	28.3	1,844	464	276	25.1
36 Electric, electronic equipment		171.3	54.8	21.4	32.0	1,565	534	187	34.1
37 Transportation equipment		332.9	50.7	40.9	15.2	1,817	260	204	14.3
38 Instruments and related products		107.3	17.2	13.0	16.0	982	160	119	16.3
39 Misc. manufacturing		32.0	3.7	3.0	11.6	374	36	27	9.7
— Administrative and auxiliary		-	-	-	-	1,183	205	-	17.3

¹ Represents zero. ² X Not applicable. ³ Standard Industrial Classification; see text, section 13. ⁴ Includes total domestic and export shipments for all manufacturing establishments. ⁵ Includes only the value of manufactured products exported by the producing plants. ⁶ Employment is limited to paid employees in manufacturing plants producing the export product. The number of employees related to export shipments was calculated for each establishment, aggregated by industry and by States, and inflated to a level comparable to the plant value of exports reported in the official foreign trade statistics

Source of tables 1258 and 1259: U.S. Bureau of the Census, *Census of Manufactures, 1977 and 1987; and Annual Survey of Manufactures*.

No. 1260. Export-Related Shipments and Employment of Manufacturing Establishments, by State: 1987

[Advance data. See headnote, table 1259. Includes employees of central administrative and auxiliary offices]

REGION, DIVISION, AND STATE	MANUFACTURES SHIPMENT VALUE					MANUFACTURING EMPLOYMENT				
	Total (bil. dol.)	Export related			Export related as percent of ship- ments	Total (1,000)	Export related			Export related as percent of total employ- ment
		Total (bil. dol.)	Direct exports (bil. dol.)	Sup- porting exports (bil. dol.)			Total (1,000)	Direct exports (1,000)	Sup- porting exports (1,000)	
U.S.	2,475.9	378.8	193.6	185.2	15.3	18,900.1	2,770.8	1,184.5	1,586.1	14.7
Northeast	484.0	75.1	36.8	38.3	15.5	4,337.1	686.2	271.6	394.6	15.4
N.E.	137.1	26.5	14.3	12.4	19.3	1,347.3	245.9	110.5	135.4	16.3
ME	10.7	1.6	0.8	0.8	14.9	101.4	13.0	5.9	7.1	12.8
NH	12.2	2.6	1.2	1.5	21.7	108.0	20.8	8.4	12.4	19.3
VT	4.8	1.2	0.6	0.6	25.7	48.5	11.4	5.5	5.9	23.5
MA	62.8	11.9	6.3	5.6	19.0	591.4	109.8	47.2	62.6	18.6
RI	9.2	1.5	0.7	0.9	16.1	111.9	17.1	7.4	9.7	15.3
CT	37.4	7.7	4.7	3.0	20.7	386.1	73.8	36.1	37.7	19.1
M.A.	346.9	48.6	22.5	25.9	14.0	2,989.8	420.3	161.1	259.2	14.1
NY	145.7	22.0	11.8	10.1	15.1	1,269.8	187.7	89.8	103.9	14.8
NJ	82.5	9.6	4.0	5.6	11.6	684.3	86.8	27.3	59.5	12.7
PA	118.7	17.0	6.7	10.2	14.3	1,035.7	145.8	50.0	95.8	14.1
Midwest	787.1	113.8	58.8	55.1	14.5	5,495.1	816.8	330.5	486.1	14.9
E.N.C.	590.5	87.6	43.2	44.4	14.8	4,175.8	636.3	245.3	391.0	15.2
OH	158.6	25.8	13.0	12.8	16.3	1,096.6	176.8	69.8	107.0	16.1
IN	83.8	12.5	5.0	7.5	14.9	600.7	87.3	31.2	56.1	14.5
IL	132.2	19.0	8.7	10.3	14.4	985.0	144.6	50.1	94.5	14.7
MI	146.3	21.7	12.4	9.3	14.8	979.0	155.1	65.2	89.9	15.8
WI	69.6	8.6	4.1	4.5	12.4	514.3	72.5	29.0	43.5	14.1
W.N.C.	196.6	26.2	15.6	10.7	13.3	1,319.5	180.3	85.2	95.1	13.7
MN	47.6	8.0	4.7	3.3	16.8	373.5	62.3	28.2	34.1	16.7
IA	35.4	4.3	2.6	1.7	12.1	206.0	25.9	13.4	12.5	12.6
MO	59.9	8.3	5.1	3.2	13.9	417.7	56.1	26.4	29.7	13.4
ND	2.6	0.3	0.2	0.1	12.8	15.4	1.4	0.8	0.6	9.1
SD	3.9	0.5	0.3	0.2	12.3	27.3	3.5	1.6	1.9	12.8
NE	16.1	1.5	0.8	0.7	9.3	90.6	9.3	3.9	5.4	10.3
KS	31.1	3.3	1.9	1.5	10.7	189.0	21.8	10.9	10.9	11.5
South	800.9	115.3	55.1	60.2	14.4	5,825.2	720.4	298.6	421.8	12.4
S.A.	373.1	49.8	24.6	25.1	13.3	3,097.6	365.3	142.3	229.0	11.8
DE	10.7	1.1	0.5	0.6	10.1	66.6	8.2	2.0	6.2	12.3
MD	28.0	3.7	1.9	1.7	13.1	230.5	29.3	12.6	16.7	12.7
DC	2.1	0.2	0.1	0.1	8.3	17.0	1.0	0.3	0.7	5.9
VA	51.9	6.8	3.7	3.1	13.1	426.3	46.4	19.1	27.3	10.9
WV	11.6	2.6	1.1	1.4	22.1	83.8	13.8	4.8	9.0	16.5
NC	95.3	12.3	5.7	6.6	12.9	841.5	86.9	31.9	55.0	10.3
SC	41.2	6.6	3.2	3.4	16.0	366.2	48.1	20.8	27.3	13.1
GA	75.7	7.7	3.6	4.2	10.2	567.5	53.9	21.2	32.7	9.5
FL	56.6	8.8	4.8	4.0	15.5	498.2	77.7	29.6	48.1	15.8
E.S.C.	164.9	22.4	10.3	12.1	13.6	1,304.4	145.0	59.3	85.7	11.1
KY	41.8	6.0	2.9	3.1	14.3	251.5	30.5	10.7	19.8	12.1
TN	57.8	7.3	3.6	3.7	12.7	484.7	52.2	22.1	30.1	10.8
AL	40.9	5.8	2.1	3.7	14.3	348.5	42.0	18.0	24.0	12.1
MS	24.4	3.3	1.7	1.6	13.4	219.7	20.3	8.5	11.8	9.2
W.S.C.	282.9	43.1	20.2	23.0	16.4	1,423.2	210.1	97.0	113.1	14.6
AR	25.3	3.1	1.4	1.8	12.4	205.4	22.2	8.7	13.5	10.8
LA	50.7	7.7	3.4	4.3	15.2	160.4	19.2	8.9	10.3	12.0
OK	24.1	2.9	1.4	1.5	11.9	151.3	18.9	9.6	10.3	13.2
TX	162.8	29.4	14.0	15.4	18.1	906.1	148.8	69.8	79.0	16.4
West	404.3	74.6	42.8	31.7	18.5	3,242.9	565.5	281.8	283.7	17.4
Mt	73.6	12.3	5.8	6.4	16.7	596.6	98.6	43.9	55.7	16.7
MT	3.5	0.5	0.1	0.4	14.2	20.1	1.9	0.4	1.5	9.5
ID	7.0	1.2	0.8	0.4	17.0	52.9	8.8	4.8	4.0	16.6
WY	2.1	0.2	0.0	0.1	9.0	7.9	0.7	0.2	0.5	8.9
CO	23.2	3.3	1.8	1.4	14.0	183.7	28.6	14.5	14.1	15.6
NM	4.2	0.7	0.2	0.5	16.3	34.7	3.9	1.2	2.7	11.2
AZ	20.8	4.8	2.1	2.7	23.2	184.7	40.3	16.2	24.1	21.8
UT	10.3	1.3	0.6	0.7	12.9	88.9	11.9	4.7	7.2	13.4
NV	2.5	0.3	0.2	0.2	13.8	23.7	3.5	1.9	1.6	14.8
Pac	330.7	62.3	37.0	25.3	18.8	2,646.3	465.9	237.9	228.0	17.6
WA	46.5	13.8	10.8	2.8	29.3	309.7	71.3	51.5	19.8	23.0
OR	25.4	4.0	2.1	1.8	15.6	203.0	31.5	16.4	15.1	15.5
CA	252.7	43.4	23.0	20.5	17.2	2,100.6	357.7	165.6	192.1	17.0
AK	2.7	1.0	0.9	0.1	37.8	11.0	4.4	4.0	0.4	40.0
HI	3.4	0.3	0.2	0.1	9.2	22.0	1.0	0.4	0.6	4.5

Source: U.S. Bureau of the Census, *Exports from Manufacturing Establishments AR87-1*.

No. 1261. Alcoholic Beverages—Summary: 1970 to 1989

[For fiscal years ending in year shown; see text, section 9. Includes Puerto Rico. Excludes imports. See *Historical Statistics, Colonial Times to 1970*, series P 235 for beer production, and P 236a for distilled spirits]

ITEM	Unit	1970	1980	1984	1985	1986	1987	1988	1989
Beer: Breweries operated	Number	154	86	96	103	103	120	183	231
Production	Mil. bbl. ¹	135	193	193	194	194	196	197	198
Value of shipments (SIC 2082) ²	Mil. dol.	3,822	9,362	11,868	12,216	12,678	13,619	13,871	14,321
Tax-paid withdrawals	Mil. bbl. ¹	123	172	176	175	177	178	178	179
Stocks on hand, June 30	Mil. bbl. ¹	15	15	14	14	14	14	14	14
Per capita consumption	Gallons	(NA)	24.5	23.9	23.7	24.0	23.7	(NA)	(NA)
Distilled spirits:									
Production facilities operated	Number	140	143	112	117	117	102	105	119
Warehouses operated	Number	274	200	202	214	216	211	186	191
Production, total ⁴	Mil. tax gal. ⁵	355	236	134	117	102	90	99	135
Whisky	Mil. tax gal. ⁵	160	87	77	65	54	42	38	75
Tax-paid withdrawals, total	Mil. tax gal. ⁵	256	330	301	306	265	271	255	256
Whisky	Mil. tax gal. ⁵	112	42	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Stocks on hand, June 30, total ⁴	Mil. tax gal. ⁵	1,091	696	636	588	546	508	456	456
Whisky	Mil. tax gal. ⁵	960	566	490	467	445	409	370	361
Bottled for consumption, total	Mil. wine gal. ⁷	312	392	368	371	328	337	317	312
Whisky	Mil. wine gal. ⁷	192	165	142	138	121	119	111	109
Per capita ³	Wine gal. ⁷	(NA)	2.0	1.8	1.7	1.6	1.6	(NA)	(NA)
Still wines: Production ⁸	Mil. wine gal. ⁷	713	982	684	622	667	677	538	611
Distilling materials	Mil. wine gal. ⁷	(NA)	184	169	148	149	155	119	122
Tax-paid withdrawals ⁹	Mil. wine gal. ⁷	204	340	376	414	441	451	451	409
Stocks on hand, June 30 ¹⁰	Mil. wine gal. ⁷	207	486	577	602	601	618	570	538
Per capita ³	Wine gal. ⁷	(NA)	2.1	2.3	2.4	2.3	2.2	(NA)	(NA)
Effervescent wines: ¹¹									
Production	Mil. wine gal. ⁷	20.0	26.8	34.6	32.0	32.1	29.2	29.8	30.9
Tax-paid withdrawals	Mil. wine gal. ⁷	17.1	24.1	31.9	30.9	31.4	31.2	29.2	27.0
Stocks on hand, June 30	Mil. wine gal. ⁷	8.1	11.9	20.5	21.3	19.3	18.7	18.2	19.4
Per capita	Wine gal. ⁷	0.15	0.17	0.21	(NA)	(NA)	(NA)	(NA)	(NA)
Of domestic output	Wine gal. ⁷	0.13	0.12	0.17	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Barrels of 31 wine gallons (see footnote 8). ² Source: U.S. Bureau of the Census, *Census of Manufactures, 1977, 1982 and 1987*, and *Annual Survey of Manufactures*. ³ Source: U.S. Dept. of Commerce, International Trade Administration. Based on resident population as of July 1, including Armed Forces abroad. ⁴ Excludes alcohol produced for industrial use. ⁵ A tax gallon for spirits of 100 proof or over is equivalent to the proof gallon; for spirits of less than 100 proof to the wine gallon. (See footnote 8.) A proof gallon is the alcoholic equivalent of a U.S. gallon at 60° F., containing 50 percent of ethyl alcohol by volume. ⁶ Includes ethyl alcohol. ⁷ A wine gallon is the U.S. gallon equivalent to the volume of 231 cubic inches. ⁸ Production represents total amount removed from fermenters, including distilling material, and includes increase after fermentation (by amelioration, sweetening, and addition of wine spirits). ⁹ Includes special natural wines. ¹⁰ Excludes distilling materials. ¹¹ Includes champagne, other effervescent wines, and artificially carbonated wines.

Source: Except as noted, U.S. Bureau of Alcohol, Tobacco, and Firearms, *Alcohol and Tobacco Summary Statistics*, annual.

No. 1262. Tobacco Products—Production, Consumption, and Expenditures: 1970 to 1990

[Production data are for calendar years. Excludes cigars produced in customs bonded manufacturing warehouses. See also *Historical Statistics, Colonial Times to 1970*, series P 239-241]

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
Production:													
Cigarettes	Billions	583	651	714	694	667	669	665	658	689	695	677	710
Nonfilter tip	Billions	116	80	54	47	43	39	36	33	30	28	24	23
Regular	Billions	54	36	23	21	19	18	16	15	14	12	11	11
King	Billions	62	44	30	26	24	21	20	18	16	16	13	12
Filter tip	Billions	467	571	661	647	625	630	629	625	660	667	654	687
Long and king	Billions	362	404	439	404	384	380	378	373	397	400	392	417
Extra long	Billions	105	167	222	243	241	251	252	252	263	267	261	270
Cigars	Billions	8.4	5.7	4.0	3.7	3.6	3.5	3.1	2.9	2.1	2.0	2.0	1.9
Tobacco	Mil. lb.	165	152	163	163	162	163	158	147	143	142	141	142
Per capita consumption: ²	Lb. ³	9.7	9.1	7.9	7.5	7.2	6.9	6.8	6.6	6.3	6.1	5.7	5.5
All products	1,000	4.0	4.1	3.8	3.7	3.5	3.4	3.4	3.3	3.2	3.1	2.9	2.8
Cigarettes	Number	60	39	24	22	21	20	18	17	15	14	14	13
Expenditures (consumer)	Mil. dol.	11.5	15.5	21.0	25.3	28.7	30.7	32.2	33.7	35.4	37.8	40.9	43.8
Cigarettes	Mil. dol.	10.4	14.3	19.4	23.5	26.8	28.8	30.3	31.8	33.6	35.9	38.3	41.6
Cigars	Mil. dol.	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7
Other	Mil. dol.	0.4	0.6	0.9	1.1	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.5

¹ Smoking and chewing tobaccos and snuff output. ² Based on U.S. Bureau of the Census estimated population 18 years old and over, as of July 1, including Armed Forces abroad. ³ Unstemmed processing weight equivalent. ⁴ Weighing over 3 pounds per 1,000.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Tobacco Situation and Outlook*, quarterly.

No. 1263. Cotton, Wool, and Manmade Fibers—Consumption and Distribution in Selected Consumer Products: 1980 to 1990

[Represents products manufactured by U.S. mills. Excludes glass fiber]

END-USE AND YEAR	Total (mil. lb.)	COTTON		WOOL		MAN-MADE FIBERS					
		Total (mil. lb.)	Percent end-use	Total (mil. lb.)	Percent end-use	Total (mil. lb.)	Percent end-use	Cellulosic ¹		Non-cellulosic ²	
								Total (mil. lb.)	Percent end-use	Total (lb.)	Percent end-use
Total:											
1980	11,205	3,125	27.9	167	1.5	7,913	70.6	748	6.7	7,165	63.9
1985	11,538	3,176	26.8	194	1.7	8,168	71.5	542	4.7	7,626	66.8
1986	12,922	3,940	30.5	215	1.6	8,767	67.9	606	4.7	8,161	63.2
1987	13,913	4,520	32.5	226	1.6	9,167	65.9	587	4.2	8,580	61.7
1988	13,528	4,033	29.8	210	1.6	9,285	68.6	613	4.5	8,672	64.1
1989	14,006	4,584	32.7	210	1.5	9,212	65.8	600	4.3	8,612	61.5
1990	14,001	4,699	33.6	185	1.3	9,117	65.1	598	4.3	8,519	60.8
Apparel:											
1980	4,696	1,652	35.2	125	2.7	2,919	62.1	297	6.3	2,622	55.8
1985	4,282	1,766	41.2	141	3.3	2,375	55.5	208	4.9	2,167	50.6
1986	5,138	2,343	59.5	158	73.5	2,637	30.1	257	42.4	2,380	29.2
1987	5,564	2,769	61.3	157	69.5	2,638	28.8	236	40.2	2,402	28.0
1988	5,164	2,513	62.3	139	66.2	2,512	27.1	276	45.0	2,236	25.8
1989	5,457	2,834	61.8	138	65.7	2,485	27.0	274	45.7	2,211	25.7
1990	5,333	3,028	64.4	118	63.8	2,187	24.0	294	49.2	1,893	22.2
Home furnishings:											
1980	1,717	787	45.8	15	0.9	915	53.3	169	9.9	746	43.4
1985	1,895	912	48.1	18	0.9	965	51.0	125	6.6	840	44.4
1986	2,000	1,082	27.5	18	8.4	900	10.3	131	21.6	769	9.4
1987	2,162	1,232	27.3	18	8.0	912	9.9	139	23.7	773	9.0
1988	2,052	1,079	26.8	19	9.0	954	10.3	130	21.2	824	9.5
1989	2,236	1,290	28.1	19	9.0	927	10.1	123	20.5	804	9.3
1990	2,097	1,188	25.3	14	7.6	895	9.8	104	17.4	791	9.3
Floor coverings:											
1980	1,926	15	0.8	10	0.5	1,901	98.7	-	-	1,901	98.7
1985	2,565	15	0.6	12	0.5	2,538	98.9	1	-	2,537	98.9
1986	2,799	15	0.4	17	7.9	2,767	31.6	2	0.3	2,765	33.9
1987	2,975	18	0.4	23	10.2	2,934	32.0	1	0.2	2,933	34.2
1988	3,050	12	0.3	21	10.0	3,017	32.5	1	0.2	3,016	34.8
1989	2,996	13	0.3	24	11.4	2,959	32.1	1	0.2	2,958	34.3
1990	3,068	18	0.4	21	11.4	3,029	33.2	-	0.0	3,029	35.6
Exports of domestic products:											
1980	617	259	42.0	6	1.0	352	57.0	31	5.0	321	52.0
1985	328	108	33.0	10	3.0	210	64.0	16	4.9	194	59.1
1986	384	143	3.5	9	4.2	232	2.6	19	3.2	213	2.6
1987	406	127	2.7	15	6.5	264	2.9	22	3.7	242	2.8
1988	456	124	3.0	19	9.1	313	3.3	25	4.1	288	3.3
1989	492	135	3.0	20	9.5	337	3.6	27	4.4	310	3.7
1990	532	146	3.1	22	11.8	364	4.0	29	4.8	335	3.9
Industrial:											
1980	2,249	412	18.3	11	0.5	1,826	81.2	251	11.2	1,575	70.0
1985	2,468	375	15.1	13	0.5	2,080	84.4	192	7.9	1,888	76.5
1986	2,601	357	9.1	13	6.0	2,231	25.4	197	32.5	2,034	24.9
1987	2,806	374	8.3	13	5.8	2,419	26.4	189	32.2	2,230	26.0
1988	2,806	305	7.6	12	5.7	2,489	26.8	181	29.5	2,308	26.6
1989	2,825	312	6.8	9	4.3	2,504	27.2	175	29.2	2,329	27.0
1990	2,971	319	6.8	10	5.4	2,642	29.0	171	28.6	2,471	29.0

¹ Represents zero. ² Rayon and acetate. ³ Nylon, polyester, acrylic, olefin, except as noted. ³ Includes consumer-type products.

Source: Fiber Economics Bureau, Inc., Roseland, NJ, *Textile Organon*, monthly, (copyright).

No. 1264. U.S. Exports and Imports of Textiles and Apparel Products: 1989 to 1991

[In millions of dollars. Excludes glass fibers, linoleum, rubber and leather apparel and clothing donated for charity. Minus sign (-) indicates deficit]

PRODUCT	EXPORTS			GENERAL IMPORTS			BALANCE		
	1989	1990	1991	1989	1990	1991	1989	1990	1991
Total	5,964	7,401	8,669	30,653	31,931	33,197	24,689	24,530	24,528
Textile yarn fabrics	3,897	4,922	5,457	6,094	6,398	6,991	2,197	1,476	1,534
Textile yarn	1,032	1,242	1,254	742	697	831	-290	-545	-423
Cotton fabric, woven	369	503	542	1,063	1,120	1,281	694	617	739
Woven fabric of manmade textiles	577	673	703	969	974	1,106	392	301	403
Woven fabric of textile material	132	129	141	641	647	677	509	518	536
Special yarns	830	1,053	1,166	633	695	724	-197	-358	-442
Other	957	1,322	1,651	2,046	2,265	2,372	1,089	943	721
Apparel	2,087	2,479	3,212	24,559	25,533	26,206	22,472	23,054	22,994

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption*, Report FT925, monthly.

Iron and Steel Production

751

No. 1265. Iron and Steel Industry—Summary: 1980 to 1990

[The universe for financial data for 1988 represents companies who produced 75 percent of the reported raw steel production. The financial data represents the operations of the steel segment of companies. Minus sign (-) indicates net loss]

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	
Steel mill products, apparent supply	Mil. tons ¹	95.2	76.4	83.5	98.9	96.4	90.0	95.9	102.7	96.8	97.8	
Net shipments	Mil. tons ¹	83.9	61.6	67.6	73.7	73.0	70.3	76.7	83.8	84.1	85.0	
Exports	Mil. tons ¹	4.1	1.8	1.2	1.0	1.0	1.0	1.1	2.1	4.6	4.3	
Imports	Mil. tons ¹	15.5	16.7	17.1	26.2	24.3	20.7	20.4	20.9	17.3	17.2	
Scrap consumed	Mil. tons ¹	66.6	43.7	49.0	51.8	53.2	49.7	51.7	56.3	51.7	50.1	
Scrap inventory	Mil. tons ¹	6.9	5.5	5.0	4.4	4.0	3.4	3.8	3.5	3.5	3.6	
Iron and steel products: Exports	Mil. tons ¹	5.1	2.6	1.8	1.7	1.6	1.5	1.7	2.8	5.4	5.3	
Imports	Mil. tons ¹	17.9	18.8	19.3	29.5	27.6	24.2	23.8	25.7	22.1	21.9	
Capacity by steelmaking process	Mil. net tons	153.7	154.0	150.6	135.3	133.6	127.9	112.2	112.0	115.9	116.7	
Revenue	Bil. dol.	37.7	28.7	25.0	30.3	28.4	25.0	27.1	32.7	31.8	29.6	
Net income	Bil. dol.	0.7	-3.4	-2.2	(-Z)	-1.8	-4.1	1.0	-0.6	1.6	0.2	
Stockholders' equity	Bil. dol.	14.5	11.3	8.2	9.4	6.9	2.4	3.0	2.2	2.1	2.0	
Total assets	Bil. dol.	30.8	27.9	25.5	26.2	24.0	21.0	21.9	24.2	24.6	25.8	
Capital expenditures	Bil. dol.	2.7	2.3	1.9	1.2	1.6	0.9	1.2	1.8	2.3	2.5	
Working capital ratio ²	Ratio	1.6	1.5	1.3	1.4	1.3	1.6	1.5	1.7	1.6	1.5	
Inventories	Bil. dol.	4.7	4.0	3.3	4.2	3.5	3.0	3.4	3.8	4.0	4.5	
Average employment	1,000	399	289	243	236	208	175	163	169	169	164	
Hours worked	Million	758	526	475	474	419	356	354	363	360	350	
Producer price indexes: Iron and steel, total		1982=100	90.0	100.0	101.3	105.3	104.8	101.1	104.6	115.7	119.1	117.2
Steel mill products		1982=100	86.6	100.0	100.8	104.7	104.7	99.8	102.3	110.7	114.5	112.1
Blast and electric furnace products		1982=100	97.1	100.0	97.7	97.3	95.6	94.2	97.1	118.6	129.4	120.1
Iron ore		1982=100	87.8	100.0	101.2	101.2	97.5	91.5	84.2	82.8	82.8	83.3
Scrap, iron and steel		1982=100	140.9	100.0	107.4	123.7	112.6	109.6	128.4	177.1	173.7	166.0
Foundry and forge shop products		1982=100	89.7	100.0	101.6	104.4	105.2	105.2	105.7	109.6	114.6	117.2

Z Less than \$50 million. ¹ In millions of short tons. ² Current assets to current liabilities. ³ Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual.

Source: Except as noted, American Iron and Steel Institute, Washington, DC, *Annual Statistical Report*, (copyright).

No. 1266. Raw Steel, Pig Iron, and Ferroalloys Production: 1970 to 1990

[In millions, except percent. See also *Historical Statistics, Colonial Times to 1970*, series P 265-269]

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990
Raw steel (net tons):											
World production	654.2	712.0	790.4	730.9	782.6	792.9	788.9	811.1	859.2	865.3	849.6
U.S. production	131.5	116.6	111.8	84.6	92.5	88.3	81.6	89.2	99.9	97.9	98.9
Percent of world	20.1	16.4	14.2	11.6	11.8	11.1	10.3	11.0	11.6	11.3	11.6
Basic oxygen process	63.3	71.8	67.6	52.1	52.8	51.9	47.9	52.5	58.0	58.3	58.5
Electric	20.2	22.7	31.2	26.6	31.4	29.9	30.4	34.0	36.8	35.2	36.9
Open hearth	48.0	22.2	13.0	5.9	8.3	6.4	3.3	2.7	5.1	4.4	3.5
Carbon	117.4	100.4	94.7	73.8	79.9	76.7	71.4	78.0	86.8	86.2	86.6
Alloy and stainless	14.1	16.3	17.1	10.8	12.6	11.6	10.2	11.2	13.1	11.7	12.3
Pig iron and ferroalloys production (sh. tons) ¹	93.5	79.9	68.7	48.7	51.9	50.4	44.0	48.4	55.7	55.9	54.8

¹ Beginning 1975, includes blast furnace ferroalloys.

No. 1267. Steel Products—Net Shipments, by Market Classes: 1970 to 1990

[In thousands of short tons. Comprises carbon, alloy, and stainless steel]

MARKET CLASS	1970	1975	1980	1985	1986	1987	1988	1989	1990
Total ¹	90,798	79,957	83,853	73,043	70,263	76,654	83,840	84,100	84,981
Automotive	14,475	15,214	12,124	12,950	11,889	11,343	12,555	11,763	11,100
Steel service centers, distributors	16,025	12,700	16,172	18,439	17,478	19,840	21,037	20,769	21,111
Construction, incl. maintenance	8,913	8,119	8,742	7,900	7,336	7,681	8,607	8,318	9,245
Containers, packaging, shipping	7,775	6,053	5,551	4,089	4,113	4,372	4,421	4,459	4,474
Machinery, industrial equipment, tools	5,169	5,173	4,543	2,271	2,076	2,277	2,798	2,409	2,388
Steel for converting and processing	3,443	3,255	4,117	5,484	5,635	7,195	8,492	8,235	9,441
Rail transportation	3,098	3,152	3,155	1,061	798	758	1,146	1,229	1,080
Contractors' products	4,440	3,927	3,148	3,330	3,278	3,337	3,495	3,182	2,870
Oil and gas industries	3,550	4,171	5,371	2,044	1,023	1,489	1,477	1,203	1,892
Electrical equipment	2,694	2,173	2,441	1,869	2,113	2,373	2,459	2,449	2,453
Appliances, utensils, and cutlery	2,160	1,653	1,725	1,466	1,648	1,633	1,638	1,721	1,540

¹ Includes other classes not shown and nonclassified shipments.

Source of tables 1266 and 1267: American Iron and Steel Institute, Washington, DC, *Annual Statistical Report*, (copyright).

No. 1268. Manufacturing Technology—Percent of Establishments Using and Planning to Use: 1988

ESTABLISHMENT CHARACTERISTIC	ESTABLISHMENTS USING SELECTED TECHNOLOGIES						PLANNING TO USE WITHIN 2 YEARS			
	Communication and control		Computer control on factory floor		Inter-company computer network		Fabrication/machining, assembly		Automated material handling	
	Programmable control	Programmable controllers	Computer control on factory floor	For technical data	For factory use	Design and engineering	Fabrication/machining, assembly	Automated material handling	Automated sensor based inspection or testing	Communication and control
Major SIC ² group:										
34. Fabricated metal products, ...	26.8	32.2	1.8	15.0	26.8	21.1	13.4	20.4	14.7	1.3
35. Industrial mach. and equip., ...	43.2	56.7	5.3	18.4	33.9	28.1	18.5	30.8	14.9	2.6
36. Electronic and other, ...	48.5	34.9	6.7	38.0	34.5	24.9	21.1	16.2	26.6	3.3
37. Transportation equip., ...	39.9	37.3	8.0	27.1	32.0	27.4	22.0	18.7	21.9	2.0
38. Instruments, related prod., ...	48.9	33.6	5.5	27.6	32.7	32.3	25.8	21.3	25.8	3.5
Employment size:										
20 to 99, ...	29.8	35.9	1.7	13.8	22.5	18.9	13.1	11.0	23.3	1.2
100 to 499, ...	54.4	50.0	5.4	46.1	41.0	25.6	22.9	20.7	32.6	26.9
500 and over, ...	82.6	69.8	37.5	85.6	77.8	68.0	58.6	41.8	40.7	10.3
Age of plant (years):										
Less than 5, ...	44.4	37.3	3.7	24.7	29.5	27.3	21.3	18.0	32.0	19.5
5 to 15, ...	42.6	42.3	4.4	24.8	34.5	29.8	21.3	17.4	28.8	19.9
16 to 30, ...	41.3	48.0	4.7	23.7	34.9	29.0	19.4	17.1	27.5	17.6
Over 30, ...	43.1	50.0	7.3	24.9	39.0	32.1	20.7	18.7	27.0	17.0
Manufacturing process:										
Fabrication/machining, ...	31.1	53.5	2.4	20.6	31.2	24.7	13.7	12.2	24.1	15.6
Assembly, ...	49.9	15.1	7.4	30.5	30.5	32.6	26.2	22.5	18.3	19.5
Both, ...	47.2	55.0	5.7	25.2	38.7	32.1	21.8	18.8	16.6	33.3
Neither, ...	18.5	9.6	2.7	14.8	24.6	17.4	15.9	12.1	11.9	13.7
Market for most products:										
Consumer, ...	27.6	23.9	4.6	21.2	34.3	27.1	16.1	17.2	21.7	3.0
Commercial, ...	49.1	41.7	6.5	25.9	34.3	33.0	24.4	22.0	16.4	32.1
Industrial, ...	42.8	49.5	3.9	21.3	34.5	27.6	19.1	15.9	13.6	29.9
Transportation, ...	45.7	47.9	8.3	35.4	44.3	34.5	24.8	20.4	32.6	34.1
Government, ...	57.0	62.0	7.9	42.2	39.4	41.0	28.8	22.8	13.9	28.0
Other, ...	36.6	36.9	4.5	14.6	24.5	24.0	16.7	13.3	12.2	16.6
Market price for most products:										
Less than \$5, ...	28.6	29.0	2.2	27.0	39.3	26.4	16.7	15.1	25.4	22.1
\$5 to \$100, ...	33.3	45.1	3.5	25.6	35.7	29.9	16.4	17.7	15.0	28.2
\$101 to \$1,000, ...	41.0	51.5	4.5	24.9	31.6	29.6	20.0	16.1	13.7	22.1
\$1,001 to \$2,000, ...	50.2	6.0	25.8	32.1	30.5	22.1	18.5	14.1	27.6	18.5
\$2,001 to \$10,000, ...	50.9	45.0	4.9	21.2	28.0	30.7	22.0	17.4	28.9	18.9
Over \$10,000, ...	61.8	48.8	9.8	22.2	39.8	31.9	21.8	14.4	30.7	20.0
										31.6
										4.5

¹ Local area network. ² Standard Industrial Classification; see text, section 13.Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufacturing Technology, 1988*.

No. 1269. Machine Tool Orders and Shipments: 1970 to 1990

[In millions of dollars. These data represent total industry volume based on reports from over 200 manufacturers]

YEAR	METAL CUTTING TYPE TOOLS				METAL FORMING TYPE TOOLS				Order backlog, end of period	
	New orders (net)		Shipments		Order backlog, end of period	New orders (net)		Shipments		
	Total	Domestic	Total	Domestic		Total	Domestic	Total	Domestic	
1970.....	651	507	993	827	471	261	227	450	412	235
1975.....	916	781	1,879	1,548	1,062	361	284	573	485	388
1980.....	3,885	3,496	3,681	3,206	4,750	870	744	1,011	879	701
1981.....	2,228	1,946	4,105	3,552	2,873	717	617	991	824	427
1982.....	1,064	890	2,895	2,599	1,043	433	372	710	600	151
1983.....	1,152	1,069	1,372	1,200	823	545	489	474	430	222
1984.....	1,916	1,700	1,607	1,484	1,132	1,000	932	679	609	542
1985.....	1,853	1,652	1,742	1,549	1,243	675	610	803	743	414
1986.....	1,544	1,377	1,890	1,685	897	581	507	688	621	307
1987.....	1,451	1,294	1,677	1,499	672	667	536	647	538	327
1988.....	2,708	2,316	1,575	1,400	1,806	883	749	825	702	386
1989.....	1,977	1,723	2,359	2,059	1,423	832	719	837	704	380
1990.....	2,070	1,772	2,330	2,004	1,164	894	761	970	851	304

Source: NMTBA-The Association For Manufacturing Technology, McLean, VA; data published in U.S. Bureau of Economic Analysis, *Business Statistics*, 1979, for 1970-78; thereafter, *Survey of Current Business*, monthly.

No. 1270. U.S. Factory Sales of Electronics Shipments: 1975 to 1990

[In millions of dollars]

TYPE OF ELECTRONICS	1975	1980	1984	1985	1986	1987	1988	1989	1990
Total value¹	42,269	100,550	169,391	172,974	174,865	189,818	200,667	205,372	211,471
Computers and industrial electronics.....	13,457	39,272	69,747	70,310	69,942	76,048	78,748	80,616	83,350
Communications equip. and systems.....	14,302	30,772	49,529	57,095	59,823	62,368	63,705	63,606	66,575
Electronic components.....	9,286	25,571	43,306	39,459	38,829	45,335	50,988	54,937	55,164
Consumer electronics (excl. imports).....	5,224	4,935	6,809	6,110	6,271	6,067	7,226	6,213	6,382

¹ Beginning 1984, includes other products and related services not shown separately.

Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual.

No. 1271. Communications Equipment—Factory Shipments: 1985 to 1990

[In millions of dollars, except percent change. Minus sign (-) indicates decrease. N.e.c. Not elsewhere classified]

ITEM	1985	1987	1988	1989	1990	PERCENT CHANGE	
						1980-90	1989-90
Shipments, total.....	40,988	46,373	47,650	48,848	51,375	161.8	7.8
Search, detection, navigation and guidance systems and equip. ¹	27,057	31,426	31,689	30,983	31,900	162.8	3.0
Radar systems and equipment.....	4,321	3,751	3,659	3,646	3,800	134.7	4.2
Missile and space-vehicle-borne equip.....	2,732	4,169	4,453	4,312	4,440	264.5	3.0
Navigation systems and equip. ²	2,971	3,820	4,001	4,634	4,800	123.2	3.6
Counter measures equipment.....	2,682	3,527	3,315	2,814	2,800	271.4	-0.5
Tracking radar.....	2,208	2,900	2,916	3,247	3,400	199.6	4.7
Search, detect., ident., and tracking n.e.c.....	1,961	1,964	1,784	1,810	1,880	131.0	3.9
Sonar search, detect., tracking systems.....	1,885	1,835	1,736	1,701	1,760	120.0	3.5
Specialized elect. and comm. intelligence equip.....	1,810	2,049	2,272	2,209	2,275	169.2	3.0
Commercial, industrial, and military communications equipment ¹	10,607	11,395	12,213	13,880	15,400	162.2	11.0
Space satellite communications systems.....	2,281	2,224	2,387	2,491	2,580	187.3	3.6
Receivers, radio communications.....	1,953	1,764	1,762	1,914	2,050	162.3	7.1
Intercommunications systems.....	1,743	1,944	1,944	2,137	2,175	82.3	1.8
Broadcast studio and related elect. equip. ⁴	1,562	1,608	1,804	1,849	1,900	60.1	2.8

¹ Includes shipments not shown separately. ² For aircraft, ship, and ground navigation. Represents autopilots, beacons, collision warning devices, direction finders equipment, etc. ³ Includes alarm systems and traffic control shipment. ⁴ Includes video, cable TV, and audio equipment.

Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual.

No. 1272. Robots—Units Shipped and Value: 1985 to 1989

[Based on a survey of all known manufacturers of robots, robot accessories, and components. Shipment value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. A robot is a reprogrammable multi-functional manipulator designed to move materials, parts, tools, or specialized devices through variable programmed motions for the performance of a variety of tasks]

ROBOTS, ACCESSORIES, AND COMPONENTS	UNITS SHIPPED (number)			VALUE OF SHIPMENTS (mil. dol.)		
	1985	1988	1989	1985	1988	1989
Robots, robot accessories, and components	(X)	(X)	(X)	345.2	238.0	256.0
Robots, complete	5,466	4,603	2,217	164.1	150.6	
Servo-controlled robots	2,978	2,072	1,840	254.9	137.7	135.7
Point-to-point type:						
Welding, soldering, brazing, and/or cutting (welding type)	839	304	273	74.6	32.3	29.3
Foundry, forging, and/or heat treating ¹	65	31	34	4.5	3.2	9.3
Assembly for non-electronic and electronic products	547	296	238	17.8	8.0	8.1
Material handling and/or parts transfer	463	247	162	44.9	27.0	26.0
Continuous-path type:						
Welding, soldering, brazing, and/or cutting	287	79	31	22.4	3.7	2.2
Spraying, painting, gluing, and/or sealing	339	292	254	41.4	30.1	35.1
Fettling, grinding, polishing, and/or deburring ²	438	823	848	49.4	33.4	25.6
Nonservo-controlled robots	460	336	377	18.0	17.1	14.9
Other robots	2,028	2,195	(3)	2.8	9.3	(3)
Robot accessories, subassemblies, etc	(X)	(X)	(X)	69.5	73.9	105.4
Miscellaneous receipts	(X)	(X)	(X)	9.2	5.8	2.5

X Not applicable. ¹ Includes all point-to-point robots, except assembly, material handling and/or parts transfer. ² Includes other continuous-path type, not elsewhere classified. ³ Beginning in 1989, other robots which included educational, hobby, experimental and non-industrial robots are no longer collected in this survey.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA 35X(88-1).

No. 1273. Computer Shipments and Revenues: 1987 to 1991

[Revenue is in if-sold, end-user dollars]

ITEM	Unit	1987	1988	1989	1990	1991
Factory revenue	Mil. dol.	44,383	44,130	47,387	49,362	50,886
Supercomputer	Mil. dol.	593	701	683	697	724
Mainframe	Mil. dol.	14,055	13,378	12,340	12,457	11,739
Midrange	Mil. dol.	13,485	11,820	10,705	10,992	10,925
Workstation	Mil. dol.	1,391	2,216	2,885	3,192	3,755
Personal computer	Mil. dol.	14,859	16,015	20,773	22,024	23,742
Unit shipments	1,000	4,642.5	5,946.7	6,591.4	7,148.8	7,618.8
Supercomputer	1,000	0.4	0.4	0.4	0.4	0.4
Mainframe	1,000	6.1	5.6	3.8	3.9	3.8
Midrange	1,000	396.4	349.6	304.7	342.1	340.8
Workstation	1,000	61.2	97.4	135.5	163.8	221.2
Personal computer	1,000	4,178.4	5,493.7	6,147.0	6,638.7	7,052.6

Source: Dataquest Inc., San Jose, CA, Consolidated Data Base, November 12, 1991.

No. 1274. Domestic Personal Computer Sales and Use: 1981 to 1988

[In millions of units, except as indicated]

ITEM	1981	1982	1983	1984	1985	1986	1987	1988
Personal computers (PC's) sold	1.11	3.53	6.90	7.61	6.75	7.04	8.34	9.50
Value (mil. dol.)	3,143	5,925	9,779	14,269	17,077	18,888	23,458	27,700
Personal computers in use, total ¹	2.12	5.53	12.17	19.18	25.27	31.15	37.84	45.08
Workplace	1.24	2.26	4.00	6.44	9.26	12.22	15.91	20.93
Business: 1-49 employees	0.30	0.55	0.99	1.71	2.57	3.47	4.55	5.84
50-999 employees	0.24	0.44	0.77	1.26	1.82	2.46	3.25	4.23
Over 999 employees	0.47	0.88	1.61	2.65	3.73	4.82	6.14	7.73
Government	0.24	0.40	0.62	0.82	1.14	1.47	1.97	2.53
Education	0.13	0.27	0.54	0.78	1.15	1.55	1.96	2.36
Kindergarten through grade 12	0.10	0.21	0.40	0.59	0.87	1.17	1.48	1.76
College/university	0.03	0.06	0.14	0.20	0.28	0.38	0.49	0.60
Homes	0.75	3.00	7.64	11.95	14.86	17.38	19.97	22.38
Personal computer-related equipment in use:								
Impact printers	0.72	1.90	4.25	8.70	12.80	17.21	22.49	27.30
Nonimpact printers	0.02	0.10	0.31	0.68	1.19	1.83	2.76	3.42
Plotters	0.02	0.05	0.12	0.22	0.39	0.61	0.88	1.07
Monochrome monitors	0.97	2.24	4.68	7.00	9.74	12.56	15.59	18.65
Color monitors	0.13	0.48	1.29	2.98	5.01	7.73	11.68	13.97
Modems	0.18	0.53	1.41	3.00	4.66	6.55	8.91	10.91
Add-in boards ²	2.41	5.68	11.43	19.36	29.62	41.22	55.17	65.26
PC hardware maintenance (mil. dol.) ³	76	166	279	568	951	1,061	1,750	2,288

¹ Excluding multiuser personal computers. ² Excluding add-in modem boards. ³ Excluding education and home.

Source: Future Computing/Datapro, Inc. Delran, NJ, unpublished data.

No. 1275. Semiconductors and Related Devices: 1980 to 1990
 [In millions of dollars, except percent. Semiconductors and related devices represent SIC 3674]

ITEM	1980	1984	1985	1986	1987	1988	1989	1990
Semiconductors:								
North American market consumption ²	6,053	13,006	9,420	10,844	12,858	15,844	17,937	17,386
Capital expenditures (North America) ³	1,438	3,039	2,072	1,438	1,911	2,649	3,004	3,208
Percent of sales	22.6	23.4	22.0	13.3	14.9	16.7	16.7	18.5
Japanese capital expenditures as a percent of revenues	17.2	43.0	40.0	16.0	16.0	21.4	23.3	23.4
R&D (North America)	423	1,007	1,159	1,250	1,448	1,661	(NA)	(NA)
Semiconductor imports, total ⁴	2,223	6,699	4,870	5,044	6,656	9,502	10,758	(NA)
Integrated circuits, total	1,909	6,055	4,365	4,459	6,000	8,683	9,957	(NA)
Transistors	193	332	242	279	318	402	401	(NA)
Diodes and rectifiers	121	312	263	306	338	417	400	(NA)
Semiconductors and related devices:								
Shipments	9,455	17,819	15,253	14,930	17,929	20,332	23,488	23,978
Integrated microcircuits	6,768	13,484	10,872	10,925	13,300	14,857	16,682	16,372
Semiconductor devices, n.e.c. ⁵	1,398	2,543	2,569	2,303	2,586	3,337	4,875	5,584
Assets, beginning of year	4,014	9,789	12,200	(NA)	16,515	(NA)	(NA)	(NA)
New capital expenditures	1,596	2,818	2,832	2,220	1,921	2,681	3,132	3,439
Used capital expenditures	40	96	390	66	94	56	46	37
Retirements	230	543	896	(NA)	1,442	(NA)	(NA)	(NA)
Assets, end of year	5,420	12,159	14,526	(NA)	17,088	(NA)	(NA)	(NA)
Depreciation charges	601	1,309	1,512	(NA)	1,719	(NA)	(NA)	(NA)
Rental payments	74	173	184	(NA)	203	(NA)	(NA)	(NA)

NA Not available. ¹ Sources: Dataquest Inc., San Jose, CA, unpublished data. ² Revenue from shipments by all companies into Canada and the United States. ³ Capital expenditures by all companies in Canada and the United States. ⁴ Imports for consumption. Includes imports not shown separately. ⁵ N.e.c.=Not elsewhere classified.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-36Q; *U.S. Imports, FT 210, 1980-1988: Import CD-Rom disc 1989*; and *Annual Survey of Manufactures*.

No. 1276. Microcontrollers and Chip Shipments: 1984 to 1990

ITEM	Unit	1984	1985	1986	1987	1988	1989	1990
Microcontrollers, worldwide: Units	Mil. units	357.0	340.8	493.9	729.2	948.3	1,152.8	1,357.5
8-bit	Mil. units	163.5	163.6	218.0	333.5	477.8	461.3	562.9
4-bit	Mil. units	193.4	177.0	271.9	392.3	465.0	682.1	777.2
16-bit	Mil. units	0.1	0.2	0.4	3.4	5.5	9.4	17.4
Revenue	Mil. dol.	1,407	1,114	1,392	2,072	2,706	3,262	3,530
8-bit	Mil. dol.	930	728	831	1,251	1,725	2,002	1,987
4-bit	Mil. dol.	476	382	555	792	935	1,173	1,391
16-bit	Mil. dol.	1	4	7	29	47	86	152
32-bit processor—Units:								
RISC ¹	Mil. units	(NA)	-	-	0.1	0.2	0.7	0.9
CISC ²	Mil. units	-	0.1	0.5	1.7	4.9	8.1	10.2
Revenue	Mil. dol.	3	19	88	301	889	1,552	1,965
RISC ¹	Mil. dol.	(NA)	3	4	12	39	(NA)	(NA)
CISC ²	Mil. dol.	3	16	84	288	850	(NA)	(NA)
256K DRAM ³ chips	Mil. units	200.0	237.9	620.0	775.0	947.1	853.7	646.1
Revenue	Mil. dol.	695	868	1,432	1,829	2,898	2,772	1,366
Price	Dollars	25.00	3.65	2.31	2.36	3.06	3.25	2.11
1-Megabit DRAM chips	Mil. units	(NA)	-	4.3	42.6	211.6	503.0	730.8
Revenue	Mil. dol.	5	134	636	3,576	7,048	4,623	4,623
Price	Dollars	(NA)	162.50	31.16	14.93	16.90	14.01	6.33

- Represents or rounds to zero. NA Not available. ¹ RISC=Reduced Instruction Set Computer. ² CISC=Complex Instruction Set Computer. ³ DRAM=Dynamic Random Access Memory.

Source: Dataquest, Inc., San Jose, CA, unpublished data.

No. 1277. Computers and Industrial Electronic Equipment—Shipments, by Type: 1975 to 1990
 [In millions of dollars]

TYPE OF EQUIPMENT	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total ¹	13,457	39,272	53,320	57,285	69,474	70,310	69,942	76,048	78,748	80,616	83,350
Computer and peripheral equipment	7,478	24,320	33,286	37,131	46,486	47,629	47,031	51,889	53,721	53,997	56,155
Computers	2,123	9,580	14,557	16,288	22,532	23,801	24,836	27,778	28,126	29,072	30,575
Peripheral equipment	3,732	14,740	18,728	20,844	23,954	23,828	22,195	24,111	25,595	24,925	25,580
Controlling, processing equipment	2,492	5,627	6,523	6,186	7,294	7,410	7,677	7,892	8,535	9,361	9,550
Testing, measuring equipment	1,552	3,584	4,695	5,200	6,279	6,008	5,738	6,009	5,807	5,701	5,415
Medical electronic equipment	629	2,703	4,402	4,845	5,148	5,028	5,111	5,576	6,015	6,911	7,480
Nuclear electronic equipment	292	384	546	490	480	519	560	601	614	636	675

¹ Includes other types of equipment not shown separately.

Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual.

No. 1278. Factory Sales of Electronic Components and Consumer Electronic Products: 1981 to 1990

[In millions of dollars]

PRODUCT	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Electronic components	28,784	29,561	33,856	43,306	39,459	38,829	45,335	50,988	54,937	55,164
Solid state products	10,309	10,729	12,570	17,032	14,650	14,408	16,819	19,780	22,376	21,950
Parts	7,647	7,403	8,318	10,155	9,329	9,169	10,664	10,871	10,560	10,225
Electron tubes	1,959	1,885	2,049	2,137	2,055	2,125	2,176	2,289	2,596	2,574
Other components	8,869	9,544	10,919	13,983	13,423	13,121	15,676	18,038	19,405	20,415
Consumer electronic products	12,438	12,499	14,561	17,594	23,652	21,480	21,835	22,139	22,340	22,191
Color TV receivers	4,349	4,253	5,002	5,538	5,565	6,040	6,303	6,277	6,530	6,247
Car audio	2,000	2,100	1,900	2,500	2,761	3,135	3,523	3,937	4,125	4,292
Video cassette recorders	1,127	1,303	2,162	3,585	4,739	5,258	3,442	2,848	2,625	2,439
Camcorders	(NA)	(NA)	(NA)	(NA)	565	1,280	1,651	1,972	2,007	2,260
Separate audio components	1,363	1,181	1,268	913	1,132	1,358	1,715	1,854	1,871	1,935
Portable audio tape equipment	1,157	971	1,102	1,191	1,140	1,389	1,469	1,547	1,595	1,645
Audio systems	720	573	630	976	1,372	1,370	1,048	1,225	1,217	1,270
Blank video cassettes	(NA)	357	580	770	1,055	1,235	1,006	936	923	948
Projection TV	287	236	268	385	488	529	527	529	478	626
Home radios	501	530	565	661	379	408	409	377	379	360
Blank audio cassettes	227	202	234	256	270	300	375	354	367	376
Monochrome TV receivers	505	507	465	419	328	373	341	236	156	132
Video disc players	55	54	81	45	23	26	26	34	50	72
Color cameras	147	232	303	355	228	59	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Includes sockets, delay lines, loudspeakers, magnetic components, transducers, printed circuit boards, microwave components, assemblies, and parts.

Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual, (copyright).

No. 1279. Selected Electric Home Appliances and Consumer Electronic Products—Shipments and Retail Value: 1985 to 1989

[Compiled from report of associations and manufacturers. Retail value represents median price of product times the number of units shipped. Except as indicated, covers electric appliances only]

PRODUCT	MANUFACTURES SHIPMENTS (1,000 units)					RETAIL VALUE (mil. dol.)				
	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
Major appliances:										
Air conditioners	2,900	2,765	3,659	4,379	4,909	1,266	1,130	1,502	1,774	2,012
Refrigerators	5,874	6,284	6,724	6,973	6,799	4,121	4,299	4,557	4,860	4,881
Microwave ovens	10,633	12,658	12,741	11,189	10,848	3,468	3,600	3,541	2,726	2,541
Ranges, electric	3,218	3,532	3,362	3,186	3,068	1,517	1,589	1,643	1,545	1,524
Freezers ²	1,140	1,154	1,180	1,250	1,189	546	517	526	555	544
Ranges, gas	1,807	1,895	2,132	2,132	2,068	821	880	992	989	960
Dryers	3,701	4,114	4,421	4,363	4,404	1,328	1,451	1,544	1,536	1,422
Washers	4,925	5,430	5,610	5,708	5,765	2,231	2,379	2,470	2,514	2,341
Video:										
TV, color	16,894	18,855	18,473	19,173	20,955	7,250	7,632	8,221	8,434	8,749
Videocassette recorders	11,912	12,685	11,700	10,998	9,843	(NA)	5,067	4,553	4,348	3,767
Camcorders	(NA)	1,090	1,600	2,108	2,348	(NA)	1,213	1,674	2,082	2,170
Video cameras	402	181	110	90	81	266	118	77	62	51
Video cassette players	(NA)	150	182	213	234	(NA)	28	28	32	35
Audio/HIFI:										
Components ³	8,800	10,914	12,085	12,858	14,050	1,653	2,041	2,232	2,571	3,060
Compact disc players	850	1,384	2,490	2,237	2,338	264	356	514	512	511
Tape decks	908	1,508	1,458	1,457	1,542	176	284	282	283	289
Portable tape equipment	27,626	30,635	30,753	29,556	31,085	1,333	1,449	1,442	1,372	1,452
Radios	27,528	29,896	30,678	27,252	28,371	808	845	818	761	815
Headphones	3,167	3,425	3,534	3,477	3,755	134	140	149	146	160
Cartridges	3,047	2,785	2,539	1,803	1,533	94	86	78	58	42
Mobile electronics:										
ID ⁴ cassette/radio combo	4,030	3,989	4,053	4,256	4,098	789	814	848	805	865
Radios only	867	757	687	664	551	81	65	59	58	49
Car speakers (in pairs)	15,162	15,010	16,241	17,540	18,294	979	942	993	1,070	1,104
Radar detectors	1,227	1,688	1,834	1,953	2,051	187	263	277	295	341
Cellular telephones	(NA)	265	321	700	1,081	(NA)	423	509	578	667
Auto security systems	(NA)	1,028	1,371	1,759	2,023	(NA)	257	308	358	360
Home office:										
Electronic typewriters	850	2,038	2,186	2,481	2,580	185	458	533	672	740
Personal computers	4,025	3,075	3,598	4,192	4,737	(NA)	2,983	3,313	3,810	4,694
Fax/fax machines	(NA)	181	525	900	1,400	(NA)	584	1,335	1,335	1,540
Blank floppy disks	205,063	425,000	545,403	651,757	706,505	(NA)	680	764	878	883
Satellite earth stations	630	255	252	277	294	1,386	513	508	624	657
Telephone equipment:										
Corded telephones	22,403	23,788	21,900	20,805	20,493	983	1,006	840	808	798
Cordless telephones	4,076	4,279	5,450	8,000	9,200	380	410	455	680	796
Telephone answering equip	3,306	4,856	7,332	10,100	12,160	371	535	654	873	986

NA Not available. ¹ 6.5 cu. ft. and over. ² 10 cu. ft. and over. ³ Includes others not shown separately. ⁴ ID = in dash.

Source: Dealerscope Merchandising, Philadelphia, PA, 68th Annual *Statistical and Marketing Report*.

Domestic Trade and Services

This section presents statistics relating to the distributive trades and service industries. Data shown for the trades, classified by kind of business, and for the various categories of services (e.g., personal, business, repair, hotel) cover sales or receipts, establishments, employees, payrolls, and other items. Also included are data for franchised businesses. The principal sources of these data are census reports and survey reports of the Bureau of the Census. Data on gross product in trade and service industries usually appear in the July issues of the *Survey of Current Business*, issued by the U.S. Bureau of Economic Analysis. Financial data for firms engaged in retail, wholesale, or service activities appear in the annual *Statistics of Income*, published by the Internal Revenue Service.

Censuses.—Censuses of retail trade and wholesale trade have been taken at various intervals since 1929. Limited coverage of the service industries started in 1933. Beginning with the 1967 census, legislation provides for a census of each area to be conducted every 5 years (for years ending in "2" and "7"). The industries covered in the censuses and surveys of business are those classified in three divisions defined in the *Standard Industrial Classification Manual* (see text, section 13). *Retail trade* refers to places of business primarily engaged in selling merchandise for personal or household consumption; *wholesale trade*, to establishments primarily engaged in selling goods to dealers and distributors for resale or to purchasers who buy for business and farm uses; and *services*, to establishments primarily engaged in providing a wide range of services for individuals and for businesses.

Beginning with the 1954 Censuses of Retail Trade and Service Industries, data for nonemployer establishments are included and published separately. The census of wholesale trade excludes establishments with no paid employees. Beginning in 1977, sales taxes and finance charges are excluded from sales (or receipt) figures of the three censuses.

In Brief

Retail sales, 1991:

Total	\$1.8 trillion
Automotive dealers	\$4 trillion
Food stores	\$4 trillion

Annual receipts of taxable service firms (\$ billions):

	1985	1990
Business services	207	345
Health services	147	246

In 1982 and prior censuses, the count of establishments represented the number in business at the end of the year. For 1987, the count of establishments represents those in business at any time during 1987.

The 1987 Census of Service Industries includes hospitals whereas the 1982 census did not. For 1987, hospitals operated by governmental organizations are included. Government-operated facilities in other service kind-of-business classifications are excluded from the census. In 1982 and 1987, data were not collected for elementary and secondary schools, colleges and universities, labor unions and similar organizations, and political organizations.

The census of retail trade beginning in 1977, excludes nonemployer direct sellers. Beginning 1982, the census treated each leased department in a store as a separate establishment and classified it according to the kind of business it conducted. In prior years, data for leased departments were consolidated with the data for stores in which they were located.

Current surveys.—Current sample surveys conducted by the Bureau of the Census cover various aspects of the retail and wholesale trade and selected service industries. Its *Monthly Retail Trade Report* contains monthly estimates of sales, inventories, inventory/sales ratios, and sales of organizations operating 11 or more retail stores, for the United States, by kind of business. In addition,

monthly retail sales data for census regions and divisions, large States, metropolitan areas, and cities are included. Annual figures on sales, year-end inventories, and sales/inventory ratios, by kind of business, appear in the *Annual Retail Trade Report*.

Statistics from the Bureau's monthly wholesale trade survey include national estimates of merchant wholesalers' sales, inventories, and stock-sales ratios by major summary groups—durable and nondurable—and selected kinds of business. Merchant wholesalers are those wholesalers who take title to the goods they sell (e.g., jobbers, exporters, importers, major distributors). These data, based on reports submitted by a sample of firms, appear in the *Monthly Wholesale Trade Report*. Annual figures on sales, sales-inventory ratios, and year-end inventories appear in the *Annual Wholesale Trade Report*. The *Service Annual Survey* provides annual estimates of receipts for selected service

kinds of business for the United States as a whole.

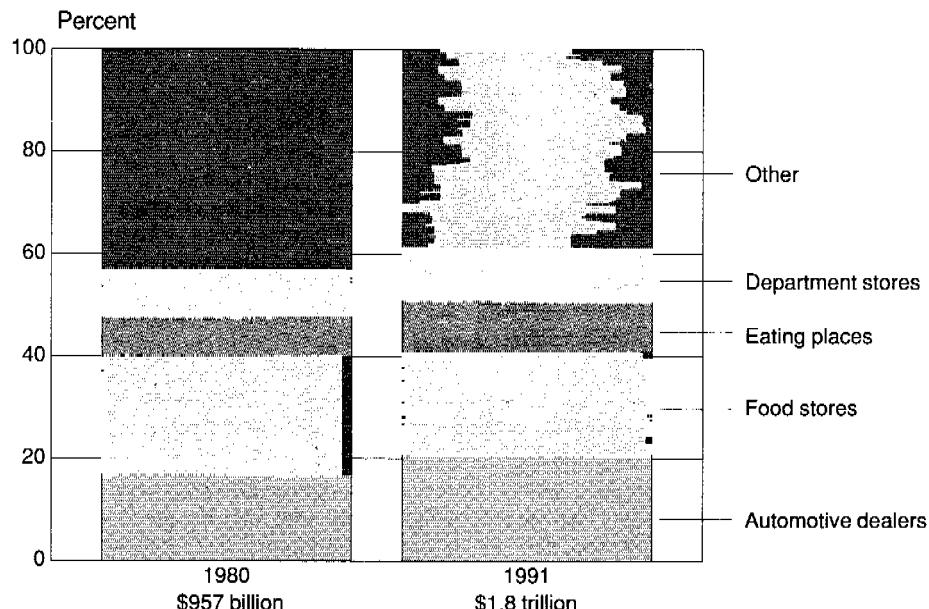
For the current sample survey programs, retail trade coverage is the same as for the census; wholesale trade coverage is limited to merchant wholesalers; and selected services coverage is less inclusive than the census.

Estimates obtained from annual and monthly surveys are based on sample data and are not expected to agree exactly with results that would be obtained from a complete census of all establishments. Data include estimates for sampling units not reporting.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

Figure 28.1
Distribution of Retail Sales, by Kind of Business: 1980 and 1991



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1287.

Gross National Product—Persons Working

759

No. 1280. Gross National Product In Domestic Trade and Service Industries in Current and Constant (1982) Dollars: 1980 to 1989

[Based on 1972 Standard Industrial Classification]

INDUSTRY	1980	1982	1983	1984	1985	1986	1987	1988	1989
CURRENT DOLLARS									
Wholesale and retail trade	438.8	506.5	542.9	614.0	658.2	682.6	721.1	777.3	825.4
Percent of gross national product	16.1	16.0	15.9	16.3	16.4	16.1	16.0	15.9	15.9
Wholesale trade	193.9	219.0	226.5	263.1	280.8	282.0	294.8	317.4	339.5
Retail trade	245.0	287.5	316.4	350.8	377.4	400.5	426.4	459.9	486.0
Services	374.0	463.6	515.5	580.2	648.1	717.6	793.6	885.2	970.5
Percent of gross national product	13.7	14.6	15.1	15.4	16.1	17.0	17.6	18.2	18.7
Hotels and other lodging places	18.9	21.7	24.3	27.0	30.4	32.4	36.0	41.2	44.5
Personal services	18.8	21.3	23.1	25.0	29.7	31.9	34.0	38.5	43.0
Business services	68.8	90.7	104.8	125.3	145.8	163.6	180.1	202.1	222.9
Auto repair, services, and garages	21.1	23.5	26.1	29.2	33.2	36.3	38.1	40.5	43.6
Miscellaneous repair services	9.2	9.6	10.8	12.8	12.4	13.7	13.8	15.6	16.9
Motion pictures	5.0	6.3	6.6	7.3	9.0	10.5	12.5	13.5	14.7
Amusement and recreation services	12.4	15.1	16.8	17.8	19.9	22.1	24.8	27.4	29.8
Health services	108.1	142.0	156.1	169.0	184.6	200.3	226.1	250.3	273.3
Legal services	23.3	30.6	35.0	41.6	46.3	54.1	60.0	68.7	75.2
Educational services	16.0	19.1	21.0	23.5	25.8	27.6	29.5	32.5	35.5
Social services, membership organizations	26.3	30.5	32.8	35.7	38.3	41.7	45.8	51.2	56.0
Miscellaneous professional services	39.6	45.7	49.9	56.9	63.6	74.4	83.6	93.9	104.9
Private households	6.6	7.6	8.2	8.9	9.0	9.1	9.1	9.7	10.3
CONSTANT (1982) DOLLARS									
Wholesale and retail trade	481.8	506.5	530.0	589.0	621.5	662.2	655.9	689.8	716.6
Percent of gross national product	15.1	16.0	16.2	16.8	17.2	17.8	17.1	17.2	17.4
Wholesale trade	200.1	219.0	222.2	254.9	267.1	284.7	284.3	290.6	304.7
Retail trade	281.7	287.5	307.8	334.0	354.4	377.5	371.6	399.2	412.0
Services	450.9	463.6	480.4	509.7	538.6	565.8	592.6	623.3	652.3
Percent of gross national product	14.1	14.6	14.6	14.6	14.9	15.2	15.4	15.5	15.8
Hotels and other lodging places	22.3	21.7	23.6	24.3	26.0	26.6	28.2	31.2	32.5
Personal services	22.3	21.3	21.7	22.2	25.2	25.9	26.3	28.6	30.3
Business services	83.9	90.7	97.3	111.0	120.8	129.8	139.1	147.7	158.7
Auto repair, services, and garages	24.8	23.5	24.5	26.2	28.7	29.0	28.4	28.3	28.8
Miscellaneous repair services	10.6	9.6	10.5	11.8	10.7	11.2	10.8	11.7	12.2
Motion pictures	5.7	6.3	6.2	6.3	7.5	8.6	8.9	9.5	9.8
Amusement and recreation services	13.4	15.1	16.1	16.3	17.5	18.4	20.1	21.8	22.8
Health services	133.8	142.0	143.7	145.0	148.6	150.5	158.0	161.1	164.4
Legal services	30.6	30.6	30.1	32.5	33.5	36.7	36.9	40.6	41.8
Educational services	18.9	19.1	19.9	21.1	22.1	22.4	22.7	23.3	24.1
Social services, membership organizations	30.2	30.5	31.1	32.3	33.3	34.7	36.5	39.0	40.9
Miscellaneous professional services	47.0	45.7	47.7	52.1	56.0	63.3	67.4	71.3	76.4
Private households	7.4	7.6	8.1	8.8	8.8	8.8	8.7	9.2	9.5

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, January and April 1991.

No. 1281. Persons Working In Domestic Trade and Service Industries: 1987 to 1990

[In thousands. Data represent worker-years of full-time equivalent employment by persons working for wages or salaries and number of active partners and proprietors of unincorporated businesses who devote a majority of their working hours to their unincorporated businesses. Based on 1987 Standard Industrial Classification.]

INDUSTRY	1987	1988	1989	1990
Wholesale and retail	23,121	23,741	24,527	24,573
Wholesale trade	6,029	6,188	6,436	6,362
Retail trade	17,092	17,553	18,091	18,211
Services	26,412	27,664	29,125	30,267
Hotels and other lodging places	1,684	1,788	1,851	1,865
Personal services	1,535	1,632	1,618	1,592
Business services	4,659	5,075	5,399	5,733
Auto repair, services, and parking	1,177	1,231	1,258	1,289
Miscellaneous repair services	550	569	582	602
Motion pictures	327	395	437	456
Amusement and recreation services	835	895	977	1,029
Health services	6,708	6,848	7,194	7,529
Legal services	1,080	1,132	1,169	1,141
Educational services	1,515	1,549	1,600	1,623
Social services and membership organizations	2,928	3,129	3,289	3,538
Social services	1,530	1,625	1,698	1,860
Membership organizations	1,398	1,504	1,591	1,678
Other services	2,680	2,704	2,921	3,048
Private households	734	717	830	822

¹ Consists of museums, botanical, zoological gardens; engineering and management services; and services, not elsewhere classified.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, January 1992.

No. 1282. Retail Trade—Establishments, Employees, and Payroll: 1987 to 1989

[Excludes government employees, railroad employees, self-employed persons, etc. For statement on methodology, see Appendix III.]

1987 SIC code ¹	KIND OF BUSINESS	ESTABLISHMENTS (1,000)			EMPLOYEES (1,000)		PAYROLL (bil. dol.)	
		1987	1988	1989	1988	1989	1988	1989
(G)	Retail trade, total	1,514.0	1,472.9	1,495.0	18,802	19,335	215.9	228.6
52	Building materials and garden supplies ²	73.0	71.4	71.2	679	698	10.8	11.4
521	Lumber and other building materials	(NA)	27.1	27.0	386	402	6.8	7.3
523	Paint, glass, and wallpaper stores	(NA)	10.2	10.0	53	54	0.9	0.9
525	Hardware stores	(NA)	19.1	19.3	140	142	1.7	1.8
526	Retail nurseries and garden stores	(NA)	10.4	9.9	76	72	0.9	1.0
53	General merchandise stores ²	36.7	35.1	35.8	2,066	2,082	20.1	21.9
531	Department stores	(NA)	10.0	10.1	1,687	1,675	16.4	17.7
533	Variety stores	(NA)	10.2	10.1	118	116	0.9	1.0
539	Misc. general merchandise stores	(NA)	14.6	14.8	261	288	2.8	3.2
54	Food stores ²	197.1	183.2	183.9	2,886	3,012	31.7	33.6
541	Grocery stores	(NA)	132.3	132.8	2,544	2,661	28.7	30.5
542	Meat and fish markets	(NA)	10.3	9.7	57	55	0.6	0.6
546	Retail bakeries	(NA)	20.4	20.1	178	175	1.4	1.5
55	Automotive dealers and service stations ²	209.8	208.3	208.2	2,076	2,129	38.7	39.4
551	New and used car dealers	(NA)	27.4	26.7	953	960	24.5	24.1
552	Used car dealers	(NA)	13.8	14.8	54	57	0.9	1.0
553	Auto and home supply stores	(NA)	44.2	44.2	287	298	4.5	4.9
554	Gasoline service stations	(NA)	108.1	105.8	683	699	7.0	7.3
56	Apparel and accessory stores ²	149.6	148.3	147.5	1,157	1,168	11.0	11.5
561	Men's and boys' clothing stores	(NA)	15.4	15.0	115	113	1.5	1.5
562	Women's clothing stores	(NA)	52.8	50.1	451	434	3.7	3.8
563	Women's accessory and specialty stores	(NA)	7.1	7.2	39	40	0.4	0.4
565	Family clothing stores	(NA)	17.8	17.3	265	269	2.5	2.7
566	Shoe stores	(NA)	38.5	38.4	203	213	2.0	2.1
569	Misc. apparel and accessory stores	(NA)	8.1	8.2	42	44	0.4	0.5
57	Furniture and home furnishings stores ²	108.0	105.0	104.6	712	734	11.2	11.8
571	Furniture and home furnishings stores ²	(NA)	61.4	60.4	427	432	6.8	7.1
5712	Furniture stores	(NA)	31.3	31.0	247	248	4.2	4.3
5713	Floor covering stores	(NA)	13.0	12.7	76	77	1.4	1.5
5719	Misc. homefurnishings stores	(NA)	13.4	13.0	87	90	1.0	1.1
572	Household appliance stores	(NA)	10.4	9.8	63	63	1.0	1.1
573	Radio, television, and computer stores	(NA)	32.3	32.5	220	233	3.3	3.5
5731	Radio, TV, and electronic stores	(NA)	17.8	16.4	122	120	2.0	2.0
5734	Computer and software stores	(NA)	3.8	4.2	23	28	0.5	0.6
5735	Record and prerecorded tape stores	(NA)	6.3	6.4	50	55	0.4	0.5
58	Eating and drinking places ²	388.4	378.5	391.5	6,097	6,288	43.2	46.1
5812	Eating places	(NA)	317.8	303.4	5,762	5,803	40.7	42.3
5813	Drinking places	(NA)	52.5	47.2	295	276	2.0	2.0
59	Miscellaneous retail ²	337.7	326.6	334.7	2,317	2,386	28.5	30.7
591	Drug stores and proprietary stores	(NA)	50.8	50.6	577	588	7.0	7.6
592	Liquor stores	(NA)	31.9	31.7	148	144	1.5	1.5
593	Used merchandise stores	(NA)	13.9	13.8	70	73	0.8	0.8
5941	Sporting goods and bicycle shops	(NA)	20.6	20.8	128	133	1.4	1.5
5942	Book stores	(NA)	10.6	11.5	75	78	0.7	0.7
5944	Jewelry stores	(NA)	27.0	27.4	160	159	2.2	2.3
5945	Hobby, toy, and game shops	(NA)	9.2	8.0	80	83	0.7	0.8
5947	Gift, novelty, and souvenir shops	(NA)	30.2	28.8	157	159	1.2	1.3
5949	Sewing, needlework, and piece goods	(NA)	8.8	8.4	62	63	0.4	0.5
5961	Catalog and mail-order houses	(NA)	6.9	6.9	132	137	2.2	2.4
5962	Merchandising machine operators	(NA)	5.0	4.9	82	78	1.2	1.3
5963	Direct selling establishments	(NA)	9.3	8.9	121	107	1.6	1.6
598	Fuel dealers	(NA)	12.4	12.0	99	99	2.1	2.1
5992	Florists	(NA)	25.3	25.9	125	129	1.1	1.2
5995	Optical goods stores	(NA)	13.7	13.4	61	69	1.0	1.0
	Administrative and auxiliary	13.7	16.4	17.6	811	838	20.8	22.2

NA Not available. ¹ Based on 1987 Standard Industrial Classification; see text, section 13. ² Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

No. 1283. Retail Trade—Summary: 1958 to 1987

[1972 through 1982 based on 1972 Standard Industrial Classification (SIC) code; 1987 based on 1987 SIC code. Prior years based on earlier editions of SIC. Comparability of data over time is affected by changes in the SIC code. See also *Historical Statistics, Colonial Times to 1970*, series T 43-47 and T 79-91.]

ITEM	Unit	1958	1963	1967	1972	1977	1982	1987
Firms, total ¹	1,000	(NA)	1,532	1,577	1,665	1,567	1,573	1,992
Multinunit establishments ²	1,000	183	220	220	301	343	415	498
Establishments, total ¹	1,000	1,795	1,708	1,763	1,780	1,855	1,923	2,420
With payroll	1,000	1,185	1,206	1,192	1,265	1,304	1,324	1,504
With sales of \$1,000,000 or more	1,000	(NA)	(NA)	74	119	193	259	
Consumer Price Index: ⁴								
All items	1982-84 = 100	28.9	30.6	33.4	41.8	60.6	96.5	113.6
All commodities	1982-84 = 100	33.3	34.4	36.8	44.5	64.2	97.0	107.7
Sales	Bil. dol.	200	244	310	457	723	1,066	1,540
By establishments with payroll	Bil. dol.	188	233	295	440	700	1,039	1,493
By multinunit establishments ²	Bil. dol.	367	90	124	202	341	567	844
Percent of total sales	Percent	33.5	36.6	39.8	44.0	47.1	53.2	56.5
Percent of multinunit sales by 100-or-more establishment multinunits ⁵	Percent	42.4	43.1	46.7	55.8	55.8	54.5	54.6
In 1982 dollars ⁶	Bil. dol.	(NA)	645	764	943	1,054	1,066	1,393
Percent of sales by corporations	Percent	53.0	61.9	67.4	76.4	79.8	84.6	88.9
Per capita sales: ⁷								
Current dollars	Dollars	1,156	1,296	1,571	2,186	3,291	4,599	6,328
Constant (1982) dollars ⁶	Dollars	(NA)	3,423	3,869	4,508	4,798	4,599	5,722
Sales as percent of personal income	Percent	35.5	52.4	49.3	48.1	46.9	41.5	40.9
Sales, inside metropolitan areas ⁸	Bil. dol.	133	170	221	(NA)	552	845	1,230
Percent of total sales	Percent	66.4	69.5	71.4	(NA)	76.3	79.3	98.4
Payroll, entire year	Bil. dol.	21.7	27.6	36.2	55.4	85.9	123.6	177.5
Percent of sales	Percent	11.5	11.3	11.7	12.1	11.9	11.6	11.5
Paid employees, March 12 pay period ¹⁰	1,000	7,942	8,410	9,381	11,211	13,040	14,468	17,780

NA Not available. ¹ Through 1982, represents the number of establishments and firms in business at the end of the year. For 1987, represents the number of establishments and firms in business at any time during year. ² Establishments operated by firms which operate at two or more locations. Beginning 1982, includes single units operated by multinunit establishments. 1972 and 1977 data revised since originally published. ³ Excludes Alaska and Hawaii. ⁴ Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*. Beginning 1982, CPI-U annual averages, see text, section 14. ⁵ Prior to 1982, data provided for percent of multinunit sales by 101-or-more establishment units. ⁶ Based on implicit price deflators for retail sales supplied by U.S. Bureau of Economic Analysis. ⁷ Based on estimated resident population as of July 1. ⁸ Through 1982 based on Standard Metropolitan Statistical Area definitions. Data for 1987 based on Metropolitan Statistical Area definitions. See Appendix II. ⁹ Covers only establishments with payroll. ¹⁰ 1958 and 1963 data for week including November 15.

Source: Except as noted, U.S. Bureau of the Census, *U.S. Census of Business: 1958*, vol. I; *1963*, vol. I; *1967*, vol. I; and *Census of Retail Trade, 1972*, RC72-S-1; *1977*, RC77-52; *1982*, RC82-A-52 and RC82-I-1; and *1987*, RC87-A-52, RC87-N-1, and RC87-S-1.

No. 1284. Retail Trade—Sales, by Broad Merchandise Lines: 1982 and 1987

[For establishments with payroll]

MERCHANDISE LINES	1982			1987		
	Estab- lish- ments, 1 (1,000)	Sales of specified merchandise lines		Estab- lish- ments (1,000)	Sales of specified merchandise lines	
		Total (mil. dol.)	Percent distri- bution		Total (mil. dol.)	Percent distri- bution
Retail trade, total ²	1,330	1,039,029	100.0	1,504	1,493,309	100.0
Groceries and other food	267	198,705	19.1	369	247,410	16.6
Meals and snacks	391	92,677	8.9	478	137,954	9.2
Packaged alcoholic beverages	157	25,633	2.5	179	29,651	2.0
Cigars, cigarettes, and tobacco	241	14,664	1.4	275	23,231	1.6
Drugs, health and beauty aids	187	42,337	4.1	219	69,040	4.6
Men's, boys' wear, except footwear	104	29,461	2.8	117	41,647	2.8
Women's, girls' wear, except footwear	146	57,553	5.5	175	85,617	5.7
Footwear, except infant's and toddler's	112	17,017	1.6	111	22,732	1.5
Furniture and sleep equipment	68	19,086	1.8	79	29,843	2.0
Kitchenware and home furnishings	150	15,642	1.5	167	21,512	1.4
Jewelry	95	12,133	1.2	118	20,691	1.4
Sporting goods	70	13,038	1.3	73	21,190	1.4
Hardware, tools, plumbing, and electrical supplies	103	13,978	1.3	107	20,784	1.4
Lumber and building materials	(NA)	(NA)		65	45,491	3.0
Cars, trucks, powered vehicles	49	139,687	13.4	51	251,243	16.8
Automotive fuels	156	89,288	8.6	151	87,432	5.9
Automobile tires, batteries, accessories	166	31,050	3.0	158	37,734	2.5
Nonmerchandise receipts	249	30,355	2.9	342	52,381	3.5

NA Not available. X Not applicable. ¹ Excludes establishments not in business at end of year. ² Includes other merchandise lines not shown separately. ³ Detail will not add to total because establishments may carry more than one merchandise line.

Source: U.S. Bureau of the Census, *Census of Retail Trade, 1982*, and *1987, Merchandise Line Sales*, RC82-L and RC87-S-3.

No. 1285. Retail Trade Establishments—Number, Sales, Payroll, and Employees, by Kind of Business: 1987

[Each kind-of-business classification includes leased departments classified in that kind of business as if they were separate establishments. See *Historical Statistics, Colonial Times to 1970*, series T 79-196 for similar but not comparable data]

1987 SIC code ¹	KIND OF BUSINESS	ALL ESTAB- LISHMENTS		ESTABLISHMENTS WITH PAYROLL				
		Num- ber ² (1,000)	Sales (mil. dol.)	Num- ber ² (1,000)	Sales		Annual payroll (mil. dol.)	Paid employees ³ (1,000)
					Total (mil. dol.)	Per estab- lish- ment (\$1,000)		
52	Retail trade, total.....	4,240	4,154,026	1,504	1,493,309	993	177,548	17,780
521	Building materials, garden supplies stores.....	107	83,454	74	81,487	1,104	9,760	668
521.3	Building materials, supply stores.....	51	61,302	38	60,525	1,593	6,929	432
525	Hardware stores.....	27	11,036	20	10,535	525	1,564	138
526	Retail nurseries, lawn and garden supply stores.....	21	5,809	11	5,411	506	822	71
527	Mobile home dealers.....	8	5,307	5	5,015	993	445	27
53	General merchandise stores.....	57	181,971	35	181,147	5,112	19,586	2,003
531	Department stores (incl. leased depts.) ^{4,5,6}	10	153,679	10	153,679	15,305	(NA)	(NA)
531	Department stores (excl. leased depts.) ^{5,6}	10	144,017	10	144,017	14,343	16,365	1,651
533	Variety stores.....	21	7,134	10	6,762	649	926	121
539	Misc. general merchandise stores.....	26	30,819	15	30,368	2,029	2,294	231
54	Food stores.....	290	309,460	191	301,847	1,583	29,819	2,855
541	Grocery stores.....	197	290,979	138	285,481	2,075	27,084	2,502
542	Meat and fish (seafood) markets.....	(NA)	(NA)	11	5,616	494	606	59
546	Retail bakeries.....	31	5,194	22	4,871	224	1,353	185
543	Fruit and vegetable markets.....	(NA)	(NA)	3	1,802	551	186	20
544	Candy, nut, confectionery stores.....	(NA)	(NA)	6	1,182	193	198	31
55 ex.	Automotive dealers.....	194	342,896	103	333,420	3,246	28,688	1,373
551	New and used car dealers.....	28	280,529	28	280,529	9,906	22,205	940
552	Used car dealers.....	75	18,295	15	10,849	726	809	55
553	Auto and home supply stores.....	67	26,622	46	25,460	551	4,152	286
555	Boat dealers.....	(NA)	(NA)	5	6,824	1,319	620	35
556	Recreational vehicle dealers.....	(NA)	(NA)	3	5,538	1,842	437	25
557	Motorcycle dealers.....	(NA)	(NA)	4	3,475	828	382	27
554	Gasoline service stations.....	137	104,769	115	101,997	889	6,414	702
556	Apparel and accessory stores ⁷	197	79,322	149	77,391	518	9,725	1,121
561	Men's and boys' clothing stores.....	19	9,017	17	8,869	537	1,361	115
562, 3	Women's clothing, specialty stores.....	77	29,208	60	28,531	477	3,519	455
562	Women's clothing stores.....	64	26,366	52	25,868	495	3,150	419
565	Family clothing stores.....	27	21,472	18	21,117	1,145	2,362	268
566	Shoe stores.....	43	14,594	39	14,411	365	1,880	205
564	Children's and infants' wear stores.....	(NA)	(NA)	6	2,101	342	245	37
57	Furniture and homefurnishings stores.....	180	79,072	110	74,783	682	9,904	703
5712	Furniture stores.....	46	26,740	33	25,997	793	3,828	247
5713, 4, 9	Homefurnishings stores.....	63	17,737	32	16,374	512	2,389	176
572	Household appliance stores.....	17	8,642	11	8,332	744	953	65
573	Radio, television, computer, and music stores.....	54	24,953	34	24,080	714	2,734	215
5734	Computer and software stores.....	8	2,799	4	2,651	687	325	22
58	Eating and drinking places ⁷	490	153,462	391	148,776	380	38,582	6,100
5812 pt.	Eating places ⁷	402	142,627	333	139,282	419	36,633	5,787
5812 pt.	Restaurants and lunchrooms.....	(NA)	(NA)	155	66,364	429	18,798	2,822
5812 pt.	Refreshment places.....	(NA)	(NA)	138	96,870	412	13,269	2,352
5813	Drinking places.....	88	10,834	59	9,495	162	1,950	313
591	Drug and proprietary stores.....	56	54,142	52	53,824	1,031	6,476	574
591 ex.	Miscellaneous retail stores ⁷	470	452,716	284	138,636	489	18,594	1,682
592	Liquor stores.....	45	19,826	35	18,597	528	1,454	157
593	Used merchandise stores.....	89	5,217	15	3,502	236	663	69
594	Misc. shopping goods stores ⁷	263	53,777	123	49,460	403	6,481	706
5941	Sporting goods, bicycle shops.....	50	11,256	22	10,077	467	1,218	121
5942	Book stores.....	19	5,338	11	5,116	462	581	72
5943	Stationery stores.....	7	1,942	5	1,814	376	287	27
5944	Jewelry stores.....	50	12,925	28	11,994	428	1,921	163
5945	Hobby, toy, and game shops.....	28	7,451	10	7,031	730	614	76
5946	Camera, photo supply stores.....	6	2,383	4	2,294	605	276	21
5947	Gift, novelty, souvenir shops.....	79	8,446	32	7,459	231	1,055	151
5949	Sewing, needlework, and piece goods stores.....	22	3,138	10	2,836	294	406	65
596	Nonstore retailers.....	46	34,878	23	33,894	1,470	4,523	318
5961	Catalog and mail-order houses.....	31	20,765	7	20,347	2,815	1,932	123
5962	Merchandising machine operators.....	24	6,258	5	5,692	1,074	1,090	74
5963	Direct selling establishments.....	411	7,855	11	7,855	746	1,501	121
598	Fuel dealers.....	17	14,503	13	14,198	1,114	1,824	98
5992	Florists.....	50	5,441	27	4,810	180	1,019	125
5995	Optical goods stores.....	15	3,480	14	3,415	251	811	54

NA Not available. ¹ Based on 1987 Standard Industrial Classification; see text, section 13. ² Represents the number of establishments in business at any time during year. ³ For pay period including March 12. ⁴ Excludes nonemployer direct sellers, SIC 5963. ⁵ Includes sales from catalog order desks. ⁶ Establishments defined as department stores with 50 employees or more. ⁷ Includes other kinds of businesses, not shown separately.

Source: U.S. Bureau of the Census, 1987 Census of Retail Trade, RC87-A-52 and RC87-N-1.

No. 1286. Retail Trade Sales—Summary: 1970 to 1991

[Sales and inventories for leased departments and concessions are tabulated in the kind-of-business category of the leased department or concession. Based on Current Business Survey, see Appendix III. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series T 245, 246, and 255]

YEAR	CURRENT DOLLARS						CONSTANT (1982) dollars ⁴		
	Total sales (bil. dol.)	Annual percent change ¹	Per capita ² (dol.)	Index of sales (1982 = 100)	Durable goods (bil. dol.)	Non durable goods (bil. dol.)		Total sales (bil. dol.)	Annual percent change ¹
						Total	Dept. stores ³		
1970	375.2	6.4	1,839	35.1	114.8	260.3	37.4	822.7	2.5
1971	414.2	10.4	2,002	38.7	135.4	278.8	41.8	874.7	6.3
1972	458.5	10.7	2,191	42.9	156.3	302.2	45.9	945.6	8.1
1973	511.9	11.6	2,422	47.9	177.2	334.7	51.0	990.7	4.8
1974	542.0	5.9	2,541	50.7	172.9	369.1	53.8	937.4	-5.4
1975	588.1	8.5	2,730	55.0	185.9	402.2	57.5	944.0	0.7
1976	656.4	11.6	3,017	61.4	220.4	436.0	63.5	1,007.2	6.7
1977	722.5	10.1	3,288	67.6	249.4	473.1	71.1	1,053.3	4.6
1978	804.2	11.3	3,621	75.2	281.4	522.7	78.0	1,096.0	4.1
1979	896.8	11.5	3,993	83.9	307.5	589.2	82.5	1,112.8	1.5
1980	957.4	6.7	4,213	89.5	299.2	658.1	88.3	1,074.8	3.4
1981	1,038.7	8.5	4,527	97.1	324.8	713.9	98.9	1,078.5	0.3
1982	1,069.4	3.0	4,616	100.0	336.2	733.2	103.3	1,069.4	-0.8
1983	1,170.8	9.5	5,008	109.5	391.6	779.3	112.1	1,145.6	7.1
1984	1,287.8	10.0	5,460	120.4	453.5	832.5	124.1	1,228.8	7.3
1985	1,375.7	6.8	5,781	128.6	498.8	876.9	129.8	1,285.7	4.6
1986	1,450.3	5.4	6,039	135.6	541.5	908.9	137.8	1,359.2	5.7
1987	1,542.1	6.3	6,364	144.2	576.6	965.5	147.2	1,394.3	2.6
1988	1,651.4	7.1	6,753	154.4	627.4	1,024.0	155.1	1,448.6	3.9
1989	1,741.7	5.5	7,057	162.9	652.2	1,089.6	164.4	1,473.6	1.7
1990	1,807.2	3.8	7,246	169.0	654.8	1,152.5	170.7	1,466.9	-0.5
1991	1,821.5	0.8	7,223	170.3	644.8	1,176.7	177.3	1,439.9	1.8

¹ Change from immediate prior year. ² Based on Bureau of the Census estimates of resident population as of July 1.
³ Excludes leased departments. ⁴ Based on implicit price deflators for retail sales supplied by U.S. Bureau of Economic Analysis.

No. 1287. Retail Trade—Sales, by Kind of Business: 1980 to 1991

[In billions of dollars. See headnote, table 1286. Based on Current Business Survey, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series T 245-271]

1972 SIC code ¹	KIND OF BUSINESS	1980	1985	1986	1987	1988	1989	1990	1991
	Retail trade, total	957.4	1,375.7	1,450.3	1,542.1	1,651.4	1,741.7	1,807.2	1,821.5
	Durable goods stores, total ²	299.2	498.8	541.5	576.6	627.4	652.2	654.8	644.8
55 exc. 554	Automotive dealers	164.1	303.3	326.3	342.9	371.6	383.6	382.0	374.5
551,2,5,6,7,9	Motor vehicle, misc. automotive dealers	146.2	278.1	301.2	316.3	341.8	353.8	351.0	343.5
551,2	Motor vehicle dealers	137.7	263.1	284.5	298.8	323.8	335.3	344.0	326.8
551	Motor vehicle dealers, franchised	130.5	251.6	270.4	280.5	302.4	309.7	308.4	299.6
553	Auto and home supply stores	18.0	25.2	25.1	26.6	29.7	29.8	31.0	31.0
52	Building materials, hardware, garden supply, mobile home dealers ²	50.8	71.2	77.1	83.5	91.2	92.7	92.5	92.7
521,3	Building materials, supply stores	35.0	50.8	56.5	61.3	66.6	67.0	66.8	68.0
525	Hardware stores	8.3	10.5	10.7	11.0	11.9	12.6	13.3	13.1
57	Furniture, home furnishings, equipment ²	44.2	68.3	75.7	78.1	85.4	91.5	93.0	90.1
571	Furniture, home furnishings stores	26.3	38.3	43.0	44.5	47.5	51.1	51.6	48.9
572,2,32	Household appliance, radio, TV	14.0	25.1	27.0	27.1	30.5	32.4	33.0	32.3
	Nondurable goods stores, total ²	658.1	876.9	908.9	965.5	1,024.0	1,089.6	1,152.5	1,176.7
56	Apparel and accessory stores ²	49.3	70.2	75.6	79.3	84.9	91.4	94.7	95.6
561	Men's, boys' clothing, furnishings	7.7	8.5	8.6	9.0	9.4	9.5	9.5	9.2
562,3,8	Women's clothing, specialty stores, furriers	17.6	26.1	28.6	29.2	30.8	32.6	33.1	32.8
562	Women's ready-to-wear stores	15.9	23.6	25.7	26.4	27.5	29.3	29.9	30.2
565	Family clothing stores	10.8	17.8	19.3	21.5	23.6	25.8	26.0	29.8
566	Shoe stores	10.5	13.1	13.9	14.6	15.4	17.2	17.9	17.6
591	Drug and proprietary stores	31.0	47.0	50.5	54.1	57.4	62.5	66.6	74.9
58	Eating and drinking places	90.1	127.9	139.4	153.5	166.9	173.9	182.0	189.5
5812	Eating places	80.4	117.6	128.6	142.6	155.4	162.2	170.3	177.4
54	Food stores	220.2	285.1	297.0	309.5	326.5	345.1	362.4	370.6
541	Grocery stores	205.6	269.5	280.8	291.0	307.2	324.0	336.7	346.3
554	Gasoline service stations	94.1	113.3	102.1	104.8	107.9	117.8	131.7	128.5
53	General merchandise group stores	108.7	158.6	169.2	182.0	191.8	204.4	211.9	217.6
531	Department stores ³	88.3	129.8	137.8	147.2	155.1	164.4	170.7	177.3
533	Variety stores	7.8	8.5	7.4	7.1	7.2	7.4	7.3	7.1
539	Misc. gen. merchandise group stores ⁴	12.6	20.3	24.0	27.7	29.5	32.7	33.9	33.2
592	Liquor stores	16.9	19.5	19.9	19.8	19.6	20.0	20.8	21.4
596	Non-store retailers	22.8	28.3	30.3	35.9	41.2	45.2	50.3	50.2
5961 pt.	Mail-order houses (department store merchandise)	4.3	4.7	4.3	4.1	4.4	4.7	4.7	4.5

¹ Based on 1972 Standard Industrial Classification code; see text, section 13. ² Includes kinds of business, not shown separately. ³ Excludes leased departments. ⁴ Includes catalog showroom stores.

Source of tables 1286 and 1287: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Retail Sales and Inventories*, January 1981 Through December 1990, (BR/90-R), prior issues, and unpublished data.

**No. 1288. Retail Trade—Sales of Multiunit Organizations, by Kind of Business:
1980 to 1991**

[Data based on sales of companies which had 11 or more retail establishments according to the most recent update of multistore establishment files selected with certainty (i.e., their sales size exceeded specified dollar volume cutoffs which varied by kind of business). For details, see source. See also *Historical Statistics, Colonial Times to 1970*, series T 197-219.]

1972 SIC code ¹	KIND OF BUSINESS	SALES (bil. dol.)						PERCENT OF TOTAL RETAIL SALES		
		1980	1985	1988	1989	1990	1991	1980	1990	1991
	Total sales	357.2	514.3	608.4	648.4	665.9	705.5	37.3	38.0	38.7
553	Durable goods stores	34.2	54.6	72.9	77.1	81.1	83.5	11.4	12.4	12.9
553	Auto and home supply stores	4.7	5.9	7.5	7.9	8.6	8.9	26.2	27.7	28.7
56	Nondurable goods stores ²	322.9	459.7	535.4	571.2	604.8	622.0	49.1	52.5	52.9
562,3,8	Apparel and accessory stores	21.1	35.9	45.5	50.1	53.3	55.4	42.7	56.3	58.9
566	Women's clothing specialty stores, furriers	8.3	13.6	16.4	18.0	18.8	19.4	47.1	56.7	59.1
566	Shoe stores	5.3	7.7	9.6	10.8	11.3	11.1	50.8	63.2	63.1
591	Drug and proprietary stores	16.8	27.9	33.8	37.5	41.9	46.1	54.3	61.2	61.5
54	Food stores	119.8	162.5	185.1	193.0	202.9	208.7	54.4	56.0	56.3
541	Grocery stores	118.1	160.2	182.7	190.4	200.0	205.8	57.4	59.1	59.4
53	General merchandise group	98.5	145.9	176.3	187.5	194.5	199.8	90.6	91.8	91.8
531	Department stores	84.9	125.7	150.1	158.9	165.5	172.3	96.1	96.9	97.2
533	Variety stores	6.3	7.0	5.7	5.8	5.6	5.3	80.9	77.4	74.6
539	Misc. general merchandise group stores	7.3	13.2	20.5	22.8	23.3	22.2	58.1	68.8	66.9
5812	Eating places	22.6	33.8	42.0	44.4	46.0	46.5	28.1	27.0	26.2

¹ Based on 1972 Standard Industrial Classification code; see text, section 13. ² Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Retail Sales and Inventories, January 1981 Through December 1990* (BR/80-R) and prior issues; and unpublished data.

No. 1289. Retail Trade—Merchandise Inventories and Sales-Inventory Ratios, by Kind of Business: 1985 to 1991

[As of Dec. 31. Includes warehouses. See headnote, table 1286]

1972 SIC code ¹	KIND OF BUSINESS	INVENTORIES AT COST ² (bil. dol.)				SALES-INVENTORY RATIOS ³			
		1985	1989	1990	1991, prel.	1985	1989	1990	1991, prel.
	Total	176.9	233.3	236.3	240.1	7.8	7.5	7.7	7.6
	Total (excluding automotive dealers)	130.4	166.7	170.4	177.9	8.2	8.2	8.5	8.1
55 exc. 554	Durable goods stores ⁴	87.8	121.3	120.7	118.7	5.7	5.4	5.5	5.4
551,2,5,6,7,9	Automotive dealers	46.4	66.6	65.9	62.6	6.5	5.8	6.0	6.0
551,2	Motor vehicle and misc. automotive dealers	41.7	61.3	60.2	56.9	6.7	5.8	5.9	6.0
551	Motor vehicle dealers	38.2	56.4	55.4	(NA)	6.9	5.9	6.0	(NA)
553	Motor vehicle dealers (franchised)	36.5	52.7	52.1	(NA)	6.9	5.9	6.0	(NA)
52	Building materials, hardware, garden supplies, mobile home dealers	4.7	5.3	5.7	5.2	5.4	5.7	5.7	6.0
521,3,5	Building materials, supply, hardware stores	13.1	15.9	15.5	16.1	5.5	5.8	6.1	5.8
521,3	Building materials and supply stores	11.2	13.4	13.3	(NA)	5.5	6.0	6.2	(NA)
525	Hardware stores	8.4	10.4	10.3	(NA)	6.0	6.5	6.8	(NA)
57	Furniture, home furnishings, equipment stores ⁴	2.8	3.0	3.0	(NA)	3.8	4.2	4.1	(NA)
571	Furniture, home furnishings	13.7	16.9	16.9	16.9	5.0	5.4	5.4	5.3
5712	Furniture stores	7.1	9.1	8.8	(NA)	5.4	5.6	5.8	(NA)
5722,32	Household appliance, radio, TV	5.2	5.7	5.6	(NA)	4.8	5.7	5.8	(NA)
5722	Household appliance stores	1.5	1.7	1.6	(NA)	5.9	5.6	5.5	(NA)
5944	Jewelry stores	4.6	5.8	6.0	(NA)	2.4	2.4	2.4	(NA)
56	Nondurable goods stores ⁴	89.1	112.0	115.6	121.4	9.8	9.8	10.1	9.7
561	Apparel and accessory stores	14.6	17.7	17.9	18.0	4.8	5.2	5.3	5.3
561	Men's, boys' clothing, furnishings	2.1	2.3	2.1	(NA)	4.1	4.2	4.2	(NA)
562	Women's ready-to-wear stores	3.8	4.4	4.5	(NA)	6.2	6.7	6.8	(NA)
565	Family clothing stores	3.7	5.0	5.0	(NA)	4.8	5.2	5.4	(NA)
566	Shoe stores	3.2	4.2	4.4	(NA)	4.1	4.1	4.0	(NA)
591	Drug and proprietary stores	8.8	11.8	12.8	14.9	5.4	5.3	5.4	5.0
58	Eating and drinking places	3.2	3.5	3.7	(NA)	39.5	50.1	50.1	(NA)
54	Food stores	19.5	23.9	25.5	26.4	14.6	14.6	14.6	14.0
541	Grocery stores	18.7	22.9	24.4	25.4	14.4	14.3	14.3	13.6
554	Gasoline service stations	3.3	3.3	3.5	3.7	34.2	35.4	37.2	34.7
53	General merchandise group stores	31.3	40.1	39.8	43.0	5.1	5.1	5.3	5.1
531,9	Dept. stores, misc. general merchandise stores	29.1	38.1	37.9	(NA)	5.2	5.2	5.4	(NA)
531	Department stores	24.0	31.2	30.8	34.8	5.4	5.3	5.5	5.1
533	Variety stores	2.1	2.0	1.9	(NA)	4.0	3.7	3.9	(NA)
592	Liquor stores	2.3	2.5	2.6	(NA)	8.4	8.0	8.3	(NA)

NA Not available. ¹ Based on 1972 Standard Industrial Classification code; see text, section 13. ² Excludes supplies and equipment used in store and warehouse operations that are not for resale. Not adjusted for seasonal variation. ³ Relates annual sales to yearend inventories. ⁴ Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports*, series BR, *Annual and Monthly Retail Trade Reports*.

No. 1290. Retail Trade—Summary of Establishments, by State: 1987

[Kind-of-business classification based on 1987 Standard Industrial Classification code; see text, section 13]

DIVISION AND STATE	Estab- lish- ments	Sales (mil. dol.)	Annual payroll (mil. dol.)	Paid employ- ees ¹ (1,000)	DIVISION AND STATE	Estab- lish- ments	Sales (mil. dol.)	Annual payroll (mil. dol.)	Paid employ- ees ¹ (1,000)
U.S. . .	2,419,641	1,540,263	177,548	17,780	VA . . .	52,634	39,785	4,557	453
N.E. . .	137,866	101,632	11,900	1,115	WV . . .	17,621	9,349	994	109
ME . . .	15,242	8,940	959	92	NC . . .	69,125	40,651	4,423	465
NH . . .	12,928	10,212	1,122	102	SC . . .	36,493	19,750	2,177	237
VT . . .	7,981	4,177	473	47	GA . . .	61,686	41,186	4,792	487
MA . . .	58,623	45,997	5,493	530	E.S.C. . .	155,670	83,825	8,952	972
RI . . .	10,276	6,521	772	76	KY . . .	38,507	19,872	2,132	244
CT . . .	32,816	25,785	3,081	268	TN . . .	50,423	29,694	3,198	338
M.A. . .	364,778	236,566	27,338	2,564	AL . . .	40,218	22,268	2,357	250
NY . . .	171,579	106,453	12,774	1,150	MS . . .	26,522	11,991	1,265	140
NJ . . .	74,524	56,326	6,467	566	W.S.C. . .	271,131	152,359	17,171	1,798
PA . . .	118,675	73,787	8,097	848	AR . . .	27,040	12,319	1,246	139
E.N.C. . .	381,109	255,197	29,029	3,081	LA . . .	40,465	22,446	2,570	278
OH . . .	96,973	64,705	7,434	804	OK . . .	35,949	16,913	1,859	207
IN . . .	53,633	33,992	3,727	412	TX . . .	173,677	100,682	11,496	1,174
IL . . .	99,468	69,937	8,078	820	Mt . . .	134,395	80,171	9,487	977
MI . . .	80,743	58,026	6,584	673	MT . . .	10,720	4,511	503	57
WI . . .	50,292	28,537	3,206	372	ID . . .	10,953	5,082	556	63
W.W.C. . .	189,743	105,042	11,685	1,317	WY . . .	6,023	2,614	308	33
MN . . .	42,874	28,008	3,096	347	CO . . .	36,131	21,287	2,668	268
IA . . .	32,338	15,581	1,705	204	NM . . .	15,168	8,202	941	105
MO . . .	52,540	31,142	3,538	376	AZ . . .	31,519	22,360	2,624	261
ND . . .	7,803	3,849	408	48	UT . . .	13,827	8,620	963	109
SD . . .	8,736	3,822	408	49	NV . . .	10,054	7,495	924	81
NE . . .	17,896	8,776	970	118	Pac. . .	360,529	243,233	28,661	2,693
KS . . .	27,556	13,863	1,570	175	WA . . .	44,759	27,939	3,402	329
S.A. . .	418,420	282,239	32,328	3,263	OR . . .	29,488	17,340	2,027	204
DE . . .	6,380	5,077	566	56	CA . . .	268,873	185,959	22,732	2,022
MD . . .	39,495	32,680	3,945	378	AK . . .	6,266	3,728	484	36
DC . . .	4,478	3,465	575	55	HI . . .	11,143	8,267	1,016	102

¹ For pay period including March 12.Source: U.S. Bureau of the Census, *1987 Census of Retail Trade*, Geographic Area Series, RC87-A-1 to 52; and Nonemployer Statistics Series, RC87-N-1 to 4.**No. 1291. Retail Trade—Sales, by Metropolitan Area: 1990**

[Covers only establishments with payroll. Areas as defined by U.S. Office of Management and Budget, June 30, 1987. CMSA = consolidated metropolitan statistical area. MSA = metropolitan statistical area. NECMA = New England county metropolitan area. For definition, see Appendix II.]

METROPOLITAN AREAS RANKED BY VOLUME OF SALES	Total sales (mil. dol.)	Sales per household ¹ (dol.)	METROPOLITAN AREAS RANKED BY VOLUME OF SALES PER HOUSEHOLD	Total sales (mil. dol.)	Sales per household ¹ (dol.)
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA ² . . .	132,199	20,028	St. Cloud, MN MSA . . .	2,385	36,640
Los Angeles-Anaheim-Riverside, CA CMSA	111,467	22,285	Portland, ME NECMA . . .	3,115	32,650
Chicago-Gary-Lake County, IL-IN-WI CMSA	61,391	21,045	Honolulu, HI MSA . . .	8,377	31,340
San Francisco-Oakland-San Jose, CA CMSA	51,794	21,946	Anchorage, AK MSA . . .	2,484	29,963
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA . . .	44,689	20,609	Terre Haute, IN MSA . . .	1,453	29,663
Detroit-Ann Arbor, MI CMSA . . .	35,737	20,701	Portsmouth-Dover-Rochester, NH NECMA . . .	3,754	29,032
Washington, DC-MD-VA MSA . . .	32,926	22,207	Manchester-Nashua, NH NECMA . . .	3,608	28,502
Boston-Lawrence-Salem-Lowell-Brockton, MA NECMA . . .	32,454	22,936	Rapid City, SD MSA . . .	830	26,777
Dallas-Fort Worth, TX CMSA . . .	32,245	21,793	Bridgeport-Stamford-Norwalk-Danbury, CT NECMA . . .	7,971	26,151
Miami-Fort Lauderdale, FL CMSA . . .	27,178	21,918	Grand Forks, ND MSA . . .	641	25,139
Houston-Galveston-Brazoria, TX CMSA . . .	26,777	19,940	Atlantic City, NJ MSA . . .	3,110	24,982
Atlanta, GA MSA . . .	24,168	22,233	Rochester, MN MSA . . .	1,010	24,934
Seattle-Tacoma, WA CMSA . . .	21,747	21,340	Bangor, ME NECMA . . .	1,350	24,808
Minneapolis-St. Paul, MN-WI MSA . . .	20,447	21,534	Orlando, FL MSA . . .	9,896	23,897
Cleveland-Akron-Lorain, OH CMSA . . .	19,013	18,006	Burlington, VT NECMA . . .	1,204	23,558

¹ Based on number of households estimated as of July 1, 1990. ² Includes Bridgeport-Stamford-Norwalk-Danbury, CT NECMA.Source: Market Statistics, New York, NY, *The Survey of Buying Power Data Service*, annual, (copyright).

No. 1292. Retail Sales—

[In millions of dollars, except as indicated. Kind-of-business classification based on

REGION, DIVISION, AND STATE	ALL STORES ¹				FOOD STORES				GENERAL MERCHANDISE STORES			
	1990		Total		Supermarkets		Total		Department stores			
	1987, total	Sales per household ²		1987	1990	1987	1990	1987	1990	1987	1990	
		Total	Amount (dol.)									
U.S. . .	1,540,268	1,807,183	19,488	14.9	309,482	362,667	290,475	340,455	182,311	211,806	144,367	167,761
Northeast . . .	338,193	383,482	20,228	12.9	66,968	80,089	60,984	72,943	36,809	38,527	30,011	31,392
N.E. . .	101,628	112,581	22,638	6.8	18,703	23,176	17,114	21,216	10,699	10,856	8,445	8,387
ME . . .	8,940	10,399	22,149	9.8	1,857	2,414	1,757	2,284	828	865	570	594
NH . . .	10,212	11,860	28,373	9.7	1,937	2,532	1,846	2,413	1,190	1,250	847	887
VT . . .	4,173	4,512	21,223	4.8	965	1,040	813	978	305	296	211	206
MA . . .	45,997	50,757	22,488	7.6	8,241	10,144	7,401	9,112	4,966	4,914	3,917	3,874
RI . . .	6,521	7,325	19,276	7.4	1,206	1,512	1,052	1,319	778	785	611	616
CT . . .	25,785	27,722	22,435	3.3	4,597	5,535	4,244	5,110	2,632	2,547	2,288	2,211
M.A. . .	236,566	270,900	19,371	15.3	48,266	56,913	43,850	51,727	26,110	27,871	21,585	23,005
NY . . .	106,453	124,479	18,667	18.1	22,005	26,457	19,612	23,612	11,546	12,572	9,246	10,073
N.J. . .	56,326	63,431	22,579	13.4	11,409	13,222	10,508	12,182	5,754	6,039	4,884	5,120
PA . . .	73,787	82,890	18,413	12.8	14,851	17,234	13,730	15,933	8,810	9,260	7,435	7,813
Midwest . . .	360,253	422,324	18,873	16.5	67,790	77,593	63,697	72,926	45,712	55,423	37,658	45,614
E.N.C. . .	255,190	296,075	19,069	16.3	47,580	53,229	44,434	49,703	32,018	38,647	26,810	32,367
OH . . .	64,705	73,206	17,880	12.3	13,183	14,304	12,400	13,453	6,372	9,808	6,862	8,038
IN . . .	33,992	37,574	18,153	8.1	6,135	6,492	5,859	6,202	4,086	4,668	3,254	3,722
IL . . .	69,930	83,479	19,840	21.8	12,869	14,490	11,801	13,491	8,084	9,986	6,857	8,467
MI . . .	58,026	67,785	19,765	14.9	10,182	11,420	9,304	10,443	8,063	9,739	7,119	8,607
WI . . .	28,537	36,031	19,691	24.6	5,410	6,523	5,070	6,114	3,413	4,446	2,718	3,533
W.N.C. . .	105,063	124,249	18,419	17.1	20,211	24,364	19,262	23,223	13,694	16,776	10,848	13,247
MN . . .	28,006	33,315	20,050	14.0	4,966	6,038	4,706	5,723	3,767	4,667	2,796	3,394
IA . . .	15,581	18,818	17,724	25.5	3,328	4,084	3,199	3,926	1,947	2,430	1,526	1,916
MO . . .	31,128	36,032	18,281	12.2	5,899	6,946	5,664	6,670	4,191	5,017	3,535	4,233
SD . . .	3,848	4,467	18,630	20.5	694	819	668	788	501	601	386	466
NE . . .	3,822	4,649	17,921	25.6	750	930	720	894	393	493	294	372
KS . . .	8,814	10,313	17,113	18.4	1,734	2,072	1,559	1,861	1,092	1,326	870	1,064
South . . .	518,372	607,087	18,885	13.5	107,769	125,704	102,889	120,043	61,493	74,534	48,012	58,272
S.A. . .	282,219	325,787	19,454	8.7	55,821	64,629	53,100	61,489	31,388	37,645	24,707	29,679
DE . . .	5,077	6,041	24,145	9.9	916	1,088	850	1,009	698	860	606	745
MD . . .	32,680	36,837	20,790	5.2	6,243	7,045	5,859	6,616	3,750	4,388	2,993	3,493
DC . . .	3,465	3,815	15,360	12.8	598	637	537	573	315	348	272	301
VA . . .	39,785	47,472	20,459	8.6	8,236	9,856	7,951	9,517	4,334	5,373	3,358	4,168
WV . . .	9,349	10,060	14,718	14.6	2,226	2,404	2,095	2,262	1,322	1,481	884	1,003
NC . . .	40,650	45,756	17,995	5.9	8,146	9,223	7,878	8,919	4,063	4,769	2,999	3,526
SC . . .	19,750	23,754	18,685	17.2	4,244	5,126	4,101	4,953	2,029	2,541	1,533	1,925
GA . . .	41,168	46,748	19,417	6.5	7,924	9,019	7,644	8,700	4,920	5,809	3,887	4,708
FL . . .	90,295	105,304	20,056	8.9	17,289	20,231	16,185	18,940	9,955	12,077	8,076	9,809
E.S.C. . .	83,815	96,459	17,010	14.5	18,110	18,462	17,271	17,621	10,734	13,030	8,282	10,077
KY . . .	19,868	23,861	17,283	18.4	4,516	4,810	4,312	4,593	2,579	3,269	1,985	2,520
TN . . .	29,691	32,422	17,384	7.0	5,909	5,698	5,625	5,421	3,824	4,397	3,012	3,470
AL . . .	22,268	26,373	17,435	19.2	4,740	4,963	4,516	4,727	2,682	3,349	2,152	2,696
MS . . .	11,988	13,803	15,131	17.5	2,944	3,010	2,818	2,880	1,650	2,016	1,133	1,390
W.S.C. . .	152,338	184,842	18,998	21.5	33,839	42,593	32,518	40,933	19,370	23,859	15,023	18,516
AR . . .	12,319	15,386	17,205	24.3	2,625	3,406	2,537	3,293	1,730	2,196	1,437	1,825
LA . . .	22,446	28,778	19,260	36.2	5,655	7,508	5,402	7,173	3,045	3,950	2,272	2,949
OK . . .	16,913	20,218	16,780	25.6	3,778	4,684	3,611	4,478	2,095	2,543	1,678	2,041
TX . . .	100,661	120,455	19,631	17.0	21,781	26,995	20,968	25,988	12,500	15,171	9,636	11,702
West . . .	323,449	394,289	20,478	17.6	66,954	79,282	62,925	74,543	38,297	43,323	28,688	32,482
Mt . . .	80,197	94,172	18,465	14.7	17,304	20,409	16,695	19,889	9,016	10,827	6,771	8,166
MT . . .	4,511	5,333	17,478	24.6	1,042	1,240	1,007	1,198	428	518	325	398
ID . . .	5,082	6,004	16,591	17.6	1,157	1,375	1,123	1,335	486	589	366	448
WY . . .	2,614	2,726	16,314	15.9	548	575	535	562	265	284	194	209
CO . . .	21,311	24,383	18,864	15.2	4,345	4,987	4,198	4,817	2,538	2,967	1,982	2,314
NM . . .	8,204	9,378	17,044	13.6	1,692	1,944	1,614	1,854	943	1,103	662	784
AZ . . .	22,360	26,197	18,703	9.8	5,041	5,916	4,880	5,728	2,488	2,975	1,730	2,071
UT . . .	8,620	10,581	19,501	20.1	1,921	2,367	1,842	2,270	1,026	1,288	799	1,006
NV . . .	7,495	9,630	19,938	11.9	1,558	2,007	1,495	1,928	842	1,103	712	935
Pac . . .	243,252	300,117	21,204	18.5	49,650	58,872	46,229	54,854	29,281	32,496	21,917	24,316
WA . . .	27,939	36,762	19,370	23.3	6,297	8,010	6,029	7,669	3,962	3,945	2,500	2,938
OR . . .	17,340	22,417	20,159	23.3	3,402	4,268	3,202	4,015	2,533	2,953	1,795	2,088
CA . . .	185,978	225,066	21,245	16.8	37,425	43,261	34,630	40,044	21,801	23,505	16,256	17,688
AK . . .	3,728	4,669	24,533	22.7	927	1,197	899	1,161	527	592	370	412
HI . . .	8,267	11,204	31,121	29.4	1,599	2,137	1,470	1,964	1,258	1,502	997	1,191

¹ Includes other types of stores, not shown separately. ² Based on number of households as of July 1 as estimated by source.

³ Includes hardware dealers. ⁴ Includes home furnishings stores.

Retail Sales

767

by Type of Store and State: 1987 and 1990

1987 Standard Industrial Classification code; see text, section 13. Data are estimates]

AUTOMOTIVE DEALERS		EATING AND DRINKING PLACES		GASOLINE SERVICE STATIONS		BUILDING MATERIALS DEALERS ³		APPAREL AND ACCESSORIES STORES		FURNITURE AND APPLIANCE STORES ⁴		REGION, DIVISION, AND STATE
1987	1990	1987	1990	1987	1990	1987	1990	1987	1990	1987	1990	
342,927	381,799	153,488	182,107	104,782	131,381	83,366	92,730	79,454	94,645	78,098	92,595	U.S.
70,802	76,991	31,600	38,489	18,896	22,359	18,209	17,209	20,983	23,396	17,581	21,577	Northeast
22,498	22,903	9,472	12,059	6,060	6,855	6,513	6,032	5,707	5,861	4,841	5,801	N.E.
1,977	2,111	711	951	569	677	693	672	343	371	310	391	ME
2,476	2,658	772	1,038	501	599	827	806	443	482	542	686	NH
937	931	370	459	276	305	382	348	179	179	170	199	VT
10,059	10,175	4,808	6,093	2,576	2,900	2,541	2,333	2,832	2,900	2,184	2,605	MA
1,313	1,353	665	858	441	505	395	369	369	385	264	321	RI
5,737	5,676	2,147	2,660	1,697	1,869	1,676	1,505	1,542	1,544	1,370	1,599	CT
48,404	54,088	22,128	26,430	12,836	15,504	11,696	11,176	15,275	17,535	12,739	15,776	M.A.
19,036	21,749	10,768	13,098	5,052	6,237	5,199	5,055	7,698	8,994	6,081	7,672	NY
12,905	14,185	4,824	5,656	3,227	3,839	2,637	2,499	3,807	4,288	3,320	4,037	N.J.
16,463	18,154	6,536	7,675	4,557	5,428	3,861	3,623	3,771	4,253	3,339	4,066	PA
80,739	92,223	36,100	40,526	28,463	37,823	20,094	23,966	16,729	19,807	17,484	19,620	Midwest
57,712	64,296	25,961	28,787	19,095	25,908	13,768	16,720	12,266	14,490	12,627	15,131	E.N.C.
14,743	15,950	6,690	7,184	5,026	6,596	3,302	3,889	2,639	3,018	3,017	3,499	OH
8,050	8,491	3,321	3,478	2,693	3,459	2,045	2,349	1,396	1,556	1,495	1,691	IN
15,028	17,140	7,233	8,189	4,727	6,563	3,467	4,307	4,140	4,991	3,652	4,466	IL
13,797	15,388	5,653	6,259	4,316	5,822	3,249	3,946	2,986	3,520	3,011	3,602	MI
6,094	7,928	3,063	3,666	2,334	3,488	1,703	2,229	1,105	1,404	1,452	1,873	WI
23,027	27,928	10,139	11,759	9,369	11,916	6,329	7,246	4,463	5,318	4,857	4,489	W.N.C.
5,672	6,945	2,656	3,111	2,293	2,941	1,871	2,162	1,241	1,492	1,429	1,332	MN
3,483	4,305	1,431	1,691	1,478	1,918	906	1,056	651	790	653	615	IA
7,136	8,461	3,115	3,532	2,816	3,501	1,789	2,001	1,295	1,507	1,340	1,210	MO
895	1,063	355	403	393	478	251	282	170	199	142	128	ND
869	1,083	354	421	400	523	236	278	158	193	154	147	SD
1,853	2,229	899	1,034	816	1,027	473	536	378	447	478	437	NE
3,119	3,842	1,330	1,566	1,183	1,528	802	932	571	690	661	621	KS
122,728	136,393	50,087	58,025	36,730	43,879	28,530	30,498	25,453	29,546	25,417	28,801	South
67,736	70,886	27,921	32,715	19,203	23,197	16,728	18,114	13,557	15,350	15,141	16,856	S.A.
1,158	1,242	449	540	291	360	324	360	222	258	275	314	DE
7,903	8,056	3,084	3,527	2,159	2,539	1,598	1,687	1,789	1,976	1,817	1,971	MD
176	170	843	910	132	147	72	71	329	343	200	205	DC
9,617	10,383	3,625	4,392	2,845	3,570	2,208	2,471	1,874	2,193	2,204	2,532	VA
2,071	2,020	766	827	724	814	623	630	338	356	362	376	W.V.
9,707	9,926	3,934	4,514	2,823	3,332	3,063	3,245	1,931	2,141	2,313	2,518	NC
4,435	4,839	1,889	2,313	1,543	1,943	1,419	1,603	1,042	1,232	1,012	1,175	SC
9,689	9,962	4,059	4,683	3,062	3,637	2,585	2,753	1,909	2,127	2,103	2,302	GA
22,980	24,288	9,283	11,008	5,623	6,855	4,836	5,294	4,122	4,722	4,855	5,462	FL
20,080	23,433	7,337	8,390	6,295	7,431	4,831	5,087	3,812	4,677	3,638	4,230	E.S.C.
4,214	5,145	1,866	2,230	1,623	2,000	1,183	1,301	773	980	838	1,020	KY
7,455	8,256	2,687	2,912	2,292	2,563	1,689	1,683	1,365	1,588	1,417	1,565	TN
5,680	6,830	1,864	2,193	1,566	1,904	1,291	1,398	1,177	1,487	938	1,125	AL
2,732	3,202	921	1,056	814	964	668	705	498	614	444	520	MS
34,912	42,074	14,829	16,920	11,231	13,252	6,970	7,297	8,084	9,519	6,639	7,715	W.S.C.
2,940	3,659	945	1,113	1,011	1,229	829	893	524	638	461	553	AR
4,377	5,566	2,119	2,552	1,619	2,015	1,062	1,169	1,104	1,373	945	1,158	LA
4,074	4,850	1,672	1,884	1,254	1,459	779	802	913	1,062	707	811	AZ
23,522	27,999	10,093	11,370	7,347	8,549	4,301	4,432	5,543	6,447	4,526	5,192	TX
68,557	76,191	35,701	45,068	20,673	27,320	16,533	21,058	16,289	21,896	17,617	22,598	West
17,585	19,547	8,408	9,681	6,285	7,016	4,346	5,199	3,362	4,349	3,950	4,797	Mt
950	1,065	496	576	416	470	276	332	177	230	190	233	MT
1,188	1,331	472	549	454	511	317	382	200	261	230	282	ID
547	541	280	288	316	314	138	147	110	126	88	95	WY
4,542	4,915	2,433	2,732	1,569	1,707	1,062	1,237	921	1,159	1,112	1,313	CO
1,846	1,999	885	995	676	740	501	581	351	441	349	412	NM
5,021	5,556	2,274	2,611	1,602	1,782	1,143	1,360	857	1,103	1,161	1,403	AZ
1,880	2,185	780	940	725	847	456	570	416	562	487	617	UT
1,611	1,955	767	992	527	646	452	590	331	467	334	442	NV
50,972	56,644	27,283	35,387	14,388	20,304	12,187	15,859	12,927	17,547	13,666	17,801	Pac
5,484	6,503	3,030	4,155	1,763	2,650	1,575	2,190	1,395	1,977	1,411	1,957	WA
3,925	4,607	1,764	2,403	1,075	1,603	860	1,179	781	1,117	819	1,125	OR
39,821	43,475	20,658	26,290	10,931	15,110	9,301	11,908	9,958	13,289	11,026	14,153	CA
511	584	474	625	185	250	216	242	198	272	117	153	AK
1,232	1,476	1,366	1,913	434	692	295	339	595	892	293	413	HI

Source: Market Statistics, New York, NY, *The Survey of Buying Power Data Service*, annual (copyright).

No. 1293. Retail Foodstores—Number and Sales, by Type: 1980 to 1990

TYPE OF FOODSTORE	NUMBER ¹ (1,000)					SALES ² (bil. dol.)					PERCENT DISTRIBUTION			
	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990	Number	Sales		
											1980	1990	1980	1990
Total	253.4	255.9	255.9	254.4	253.0	220.2	285.1	326.5	349.3	362.4	100.0	100.0	100.0	100.0
Grocery stores ³	178.3	177.2	174.5	172.3	170.1	205.6	269.5	307.2	329.4	338.7	70.4	67.2	93.4	93.5
Supermarkets ⁴	26.3	26.2	24.6	24.1	23.8	157.0	201.8	230.6	247.3	260.1	10.4	9.4	71.3	71.8
Convenience stores ⁴	35.8	45.4	52.5	52.0	51.7	18.9	33.7	38.3	43.9	46.5	14.1	20.4	8.6	12.8
Superette ⁵	116.2	105.6	97.4	96.2	94.6	29.7	34.0	38.2	38.1	32.0	45.9	37.4	13.5	8.8
Specialized food stores ⁶	75.0	78.7	81.3	82.1	83.0	14.6	15.5	19.3	19.9	23.7	29.6	32.8	6.6	6.5

¹ Estimated. ² Includes nonfood items. ³ A grocery store, primarily self-service in operation, providing a full range of departments, and having at least \$2.5 million in annual sales in 1985 dollars. ⁴ A small grocery store selling a limited variety of food and nonfood products, typically open extended hours. ⁵ A grocery store, primarily self-service in operation, selling a wide variety of food and nonfood products with annual sales below \$2.5 million (1985 dollars). ⁶ Primarily engaged in the retail sale of a single food category such as meat and seafood stores and retail bakeries.

No. 1294. Supermarkets—Number and Sales, by Type of Format: 1980 to 1990

[For definition of supermarket, see footnote 3, table 1293]

SUPERMARKET FORMAT	NUMBER				SALES (bil. dol.)			PERCENT DISTRIBUTION				
	1980	1985	1989	1990	1980	1985	1989	1990	Number		Sales	
									1980	1990	1980	1990
Supermarkets, total	28,321	26,229	24,083	23,813	157.0	247.3	260.1	100.0	100.0	100.0	100.0	100.0
Conventional ¹	21,009	16,568	13,273	12,550	114.7	103.9	90.7	79.8	52.7	73.1	34.9	34.9
Superstore ²	3,150	4,854	5,642	5,810	27.8	75.7	87.6	12.0	24.4	17.7	33.7	33.7
Warehouse ²	1,670	3,463	3,395	3,381	6.6	30.4	33.1	6.3	14.2	4.2	12.7	12.7
Combination food and drug ³	475	1,047	1,273	1,619	6.3	21.8	34.8	1.8	6.8	4.0	13.4	13.4
Superwarehouse ⁴	7	207	385	333	1.6	9.9	12.6	(Z)	1.4	1.0	4.8	4.8
Hypermarket ⁵	10	70	115	120	(NA)	5.7	1.3	(Z)	0.5	(NA)	0.5	0.5

NA Not available. Z Less than .05 percent. ¹ Contains greater variety of products than conventional supermarkets, including specialty and service departments, and considerable nonfood (general merchandise) products. ² Contains limited product variety and fewer services provided, incorporating case lot stocking and shelving practices. ³ Contains a pharmacy, a nonprescription drug department, and a greater variety of health and beauty aids than that carried by conventional supermarkets. ⁴ A larger warehouse store that offers expanded product variety and often service meat, deli, or seafood departments.

⁵ A very large store offering a greater variety of general merchandise—like clothes, hardware, and seasonal goods—and personal care products than other grocery stores.

Source of tables 1293 and 1294: U.S. Dept. of Agriculture, Economic Research Service, *Food Marketing Review*, annual.

No. 1295. Commercial and Institutional Groups—Food and Drink Sales: 1980 to 1991

[Excludes military. Data refer to sales to consumers of food and alcoholic beverages. Sales are estimated. For details, see source.]

TYPE OF GROUP	Number, 1990	SALES (mil. dol.)								
		1980	1985	1986	1987	1988	1989	1990	1991 ¹	
Total	720,043	119,004	172,787	184,189	198,741	212,859	225,644	237,700	246,958	
Commercial foodservice ^{2,3}	546,996	101,529	151,762	162,528	176,312	189,289	200,583	211,083	219,474	
Eating places ²	338,724	72,276	111,657	120,138	128,867	138,542	146,716	154,227	161,771	
Restaurants, luncheonrooms	163,514	39,307	57,939	61,474	65,184	69,356	72,727	76,072	79,192	
Limited menu restaurants ⁴	149,786	28,699	47,477	51,940	56,431	61,397	65,775	69,458	73,570	
Bars and taverns ⁵	37,227	7,785	8,338	8,563	8,742	8,899	8,952	9,212	8,554	
Food contractors ²	15,739	6,818	9,460	10,095	11,075	12,071	13,198	14,149	14,990	
Manufacturing and industrial plants	(NA)	2,121	2,721	2,824	3,042	3,356	3,669	3,856	3,845	
Colleges and universities	(NA)	1,140	1,738	1,882	2,057	2,284	2,569	2,788	3,174	
Lodging places ²	27,158	6,768	10,557	11,187	12,031	12,933	13,606	14,272	14,285	
Hotel restaurants	16,532	4,964	8,986	9,714	10,608	11,533	12,215	12,907	12,922	
Motel restaurants	8,828	1,151	975	911	872	850	836	820	812	
Retail hosts ^{2,6}	107,807	3,264	5,254	5,651	7,956	8,605	9,276	9,888	10,643	
Department store restaurants	4,980	857	885	827	831	875	925	950	(NA)	
Grocery store restaurants ⁶	44,766	830	2,074	2,381	4,552	4,979	5,379	5,733	(NA)	
Gasoline service stations	33,788	492	1,052	1,164	1,254	1,381	1,523	1,681	(NA)	
Recreation and sports	14,447	1,452	1,972	2,074	2,382	2,546	2,787	2,916	2,968	
Institutional foodservice ²	173,047	17,475	21,025	21,661	22,429	23,570	25,061	26,617	27,483	
Employee foodservice	7,717	1,635	1,971	1,975	1,979	1,985	1,994	1,985	1,871	
Industrial, commercial organizations	3,091	1,377	1,682	1,694	1,680	1,658	1,641	1,603	(NA)	
Educational foodservice	95,883	4,610	5,978	6,253	6,542	6,883	7,237	7,671	7,980	
Elementary and secondary schools	93,104	2,312	2,919	3,060	3,169	3,347	3,478	3,700	3,747	
Hospitals	6,613	6,668	7,104	7,170	7,436	7,826	8,396	8,968	9,434	
Miscellaneous ²	29,403	1,521	2,077	2,197	2,365	2,489	2,677	2,845	2,969	
Clubs	10,310	1,056	1,537	1,620	1,743	1,809	1,914	1,993		

NA Not available. ¹ Projection. ² Includes other types of groups, not shown separately. ³ Data for establishments with payroll. ⁴ Fast-food restaurants. ⁵ For establishments serving food. ⁶ Beginning 1987, a portion of deli sales in grocery stores are considered foodservice.

Source: National Restaurant Association, Washington, DC, *Foodservice Numbers: A Statistical Digest for the Foodservice Industry*, 1992; *Foodservice Industry in Review*, annual; and *National Restaurant Association Foodservice Industry Forecast*, December 1991, (copyright).

No. 1296. Shopping Centers—Number, Gross Leasable Area, and Retail Sales, by Gross Leasable Area: 1986 to 1991

[As of December 31. A shopping center is a group of architecturally unified commercial establishments built on a site which is planned, developed, owned and managed as an operating unit related in its location, size, and type of shops to the trade area that the unit serves. The unit provides on-site parking in definite relationship to the types and total size of the stores. The data base attempts to include all centers with three or more stores. Estimates are based on a sample of data available on shopping center properties; for details, contact source.]

YEAR	Total	GROSS LEASABLE AREA (sq. ft.)					
		Less than 100,001	100,001- 200,000	200,001- 400,000	400,001- 800,000	800,001- 1,000,000	More than 1 million
NUMBER							
1986.....	28,496	18,230	6,692	2,083	918	261	312
1989.....	34,683	22,016	8,337	2,637	1,065	280	348
1990.....	36,515	23,231	8,756	2,781	1,102	288	357
1991.....	37,975	23,997	9,226	2,953	1,141	294	364
Percent distribution.....	100.0	63.2	24.3	7.8	3.0	0.8	1.0
Percent change, 1990-91.....	4.0	3.3	5.4	6.2	3.5	2.1	
GROSS LEASABLE AREA							
1986 (mil. sq. ft.).....	3,523	901	917	555	522	234	393
1989 (mil. sq. ft.).....	4,214	1,074	1,146	699	598	252	444
1990 (mil. sq. ft.).....	4,390	1,125	1,197	734	618	259	457
1991 (mil. sq. ft.).....	4,586	1,168	1,267	781	640	265	466
Percent distribution.....	100.0	25.5	27.6	17.0	14.0	5.8	10.2
Percent change, 1990-91.....	4.5	3.8	5.8	6.4	3.6	2.3	2.0
RETAIL SALES							
1986 (bil. dol.).....	556.5	160.3	140.4	84.8	73.9	36.2	60.8
1989 (bil. dol.).....	682.8	198.3	173.4	104.4	88.7	43.6	74.4
1990 (bil. dol.).....	706.4	205.1	179.5	108.0	91.7	45.1	77.0
1991 (bil. dol.).....	716.9	208.3	182.2	109.5	93.0	45.8	78.2
Percent distribution.....	100.0	29.0	25.4	15.3	13.0	6.4	10.9
Percent change, 1990-91.....	1.5	1.6	1.5	1.4	1.4	1.6	1.6

Source: National Research Bureau, 225 West Wacker Drive, Chicago, IL 60606-1229. Data for 1986 published by Communication Channels Inc., Atlanta, GA, in *Shopping Center World*, February issues, (copyright). Data for 1989-91 published by Monitor Publishing, Clearwater, FL, in *Monitor Magazine*, November/December issues, (copyright).

No. 1297. Shopping Centers—Number, Gross Leasable Area, and Retail Sales, by State: 1991

[Minus sign (-) indicates decrease. See headnote, table 1296]

DIVISION AND STATE	Num-ber	Gross leas-able area (mil. sq. ft.)	Retail sales (bil. dol.)	PERCENT CHANGE, 1990-91			DIVI-SION AND STATE	Num-ber	Gross leas-able area (mil. sq. ft.)	Retail sales (bil. dol.)	PERCENT CHANGE, 1990-91		
				Numb-er	Gross leas-able area	Retail sales per sq. ft.					Numb-er	Gross leas-able area	Retail sales per sq. ft.
U.S.	37,975	4,586	716.9	4.0	4.5	-2.8	V.A.	1,089	141	21.5	3.5	4.3	-2.1
N.E.	2,206	238	37.0	5.0	4.9	-3.4	W.V.	153	21	2.8	2.7	5.7	-5.7
ME	176	15	2.7	5.4	5.5	-3.7	N.C.	1,303	140	20.3	5.7	5.2	-3.0
NH	188	20	2.7	6.2	17.3	-12.6	S.C.	715	71	11.1	5.1	2.8	-1.1
VT	98	7	1.1	5.4	6.0	-4.1	G.A.	1,354	142	22.1	3.3	4.7	-2.3
MA	882	98	15.8	3.5	2.7	-1.6	F.L.	2,937	371	62.3	2.6	2.7	0.1
R.I.	182	16	2.6	2.2	2.5	-1.3	E.S.C.	2,618	284	43.7	2.1	3.2	-2.1
CT.	680	82	12.2	7.3	5.1	-3.7	K.Y.	565	61	10.0	2.4	1.6	-0.9
M.A.	3,816	540	78.5	5.9	5.2	-4.3	T.N.	1,075	118	16.2	1.7	4.0	-2.6
NY.	1,458	204	31.4	4.8	4.7	-3.9	A.L.	583	67	11.3	2.3	2.9	-1.8
N.J.	946	133	18.9	7.1	5.5	-4.3	M.S.	395	37	6.2	2.3	4.0	-3.0
PA.	1,412	202	28.1	5.2	5.6	-4.7	W.S.C.	4,283	483	90.0	1.5	1.9	-0.4
E.N.C.	5,601	728	102.0	4.7	5.6	-4.8	A.R.	331	31	5.5	1.2	1.8	-0.6
OH.	1,465	208	29.7	5.5	5.5	-4.7	L.A.	654	77	13.4	1.1	1.1	-0.7
IN.	803	107	15.4	1.8	2.7	-2.1	O.K.	546	56	9.8	4.6	3.5	-2.6
IL.	1,847	222	28.9	6.4	8.6	-7.6	T.X.	2,752	319	61.3	1.0	1.8	0.1
MI.	926	122	17.8	4.2	4.0	-3.3	Mt.	2,529	303	50.5	2.8	4.1	-1.8
WI.	580	69	10.1	2.6	3.7	-2.7	M.T.	89	8	1.4	3.5	3.2	-2.6
W.N.C.	2,262	285	46.0	2.1	3.2	-2.3	I.D.	125	15	2.4	5.0	4.5	-3.1
MN.	412	58	9.7	2.7	4.2	-3.0	W.Y.	51	6	1.0	4.1	3.7	-3.6
IA.	266	34	5.4	1.9	2.5	-2.4	C.O.	660	85	15.4	0.2	0.1	1.6
MO.	794	99	16.1	1.5	2.3	-1.3	N.M.	264	25	4.5	4.8	3.9	-1.6
ND.	77	9	1.5	4.1	2.6	-2.2	A.Z.	885	104	16.6	2.5	4.6	-1.8
SD.	47	6	0.9	4.4	3.4	-2.5	U.T.	195	28	4.7	3.2	4.2	-2.6
NE.	224	29	4.1	1.4	5.2	-4.4	N.V.	260	30	4.4	7.4	15.1	-10.3
KS.	442	49	8.3	2.6	3.1	-2.3	Pac.	6,139	705	107.8	6.2	6.8	-4.4
S.A.	8,521	1,021	161.4	3.6	3.7	-1.4	W.A.	619	82	12.1	4.0	3.5	-1.6
DE.	116	18	2.9	10.5	2.4	-0.8	OR.	414	48	6.4	7.0	6.3	-5.1
MD.	791	110	17.2	2.9	3.5	-1.8	C.A.	4,897	553	85.4	6.6	7.6	-4.9
DC.	63	8	1.2	5.0	3.4	-2.9	A.K.	57	7	1.3	1.8	1.8	0.7
HI.							H.I.	152	14	2.6	2.7	1.1	0.6

Source: National Research Bureau, 225 West Wacker Drive, Chicago, IL 60606-1229. Data published by Monitor Publishing, Clearwater, FL, in *Monitor Magazine*, November/December 1991, (copyright).

No. 1298. Domestic and International Franchising—Summary: 1980 to 1991

[Franchising is a form of marketing or distribution in which a parent company customarily grants an individual or a company the right, or privilege, to do business in a prescribed manner over a certain period of time in a specified place. The parent company is termed the franchisor; the receiver of the privilege the franchisee; and the right, or privilege, the franchise.]

ITEM	Unit	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991 ¹
DOMESTIC ²											
Number of franchised establishments.		1,000 ..	442	442	444	455	462	479	481	493	521
Company-owned ³		1,000 ..	85	86	87	86	88	89	94	95	97
Franchisee-owned		1,000 ..	357	355	357	369	374	390	387	398	424
Sales of products and services . . .	Bil. dol.	336	423	492	543	569	599	648	678	714	758
Company-owned ³	Bil. dol.	47	59	64	68	85	90	98	107	117	127
Franchisee-owned	Bil. dol.	289	364	428	475	484	509	550	570	597	631
Average sales per establishment.	\$1,000 ..	760	958	1,108	1,193	1,231	1,251	1,348	1,376	1,369	1,396
Employment.	1,000 ..	4,668	5,165	5,671	6,283	6,501	(NA)	(NA)	(NA)	(NA)	(NA)
INTERNATIONAL											
U.S. companies operating foreign outlets	Number.	279	305	328	342	354	(NA)	374	(NA)	(NA)	(NA)
Foreign outlets	1,000 ..	20.4	25.7	27.0	30.2	31.6	(NA)	35.0	(NA)	(NA)	(NA)

NA Not available. ¹ Estimated by respondents to annual survey of franchisors. ² Excludes foreign outlets of U.S. companies. ³ Represents establishments owned by the parent company.

Source: U.S. Dept. of Commerce, International Trade Administration, *Franchising in the Economy, 1986-88*, 1988. Beginning 1988, International Franchise Association Educational Foundation, Inc., Washington, DC and Horwath International, New York, NY, *Franchising in the Economy*, annual.

No. 1299. Domestic Franchising—Number of Establishments and Sales, by Kind of Franchised Business: 1980 to 1990

[See headnote, table 1298, for definition of franchising. Excludes foreign outlets of U.S. companies]

KIND OF FRANCHISED BUSINESS	NUMBER OF ESTABLISHMENTS (1,000)						SALES (bil. dol.)					
	1980	1985	1987	1988	1989 ¹	1990 ¹	1980	1985	1987	1988	1989 ¹	1990 ¹
All franchising, total . . .	442.4	455.2	479.1	480.8	498.8	533.0	336.2	543.0	599.4	648.1	678.8	716.4
Auto and truck dealers ² . . .	29.4	27.5	27.6	27.8	27.6	27.6	143.9	282.6	319.7	345.1	353.6	382.3
Percent . . .	6.6	6.0	5.8	5.8	5.5	5.2	42.8	52.0	53.3	53.2	52.1	50.6
Restaurants (all types) . . .	60.0	73.9	83.3	90.3	94.3	102.1	27.9	47.7	56.8	64.3	69.1	76.5
Percent . . .	13.6	16.2	17.4	18.8	19.9	19.2	8.3	8.8	9.5	9.9	10.2	10.7
Gasoline service stations ² . . .	158.5	124.6	115.9	113.2	112.0	111.7	94.5	100.8	89.2	101.9	108.5	115.1
Percent . . .	35.8	27.4	24.2	23.5	22.1	20.9	28.1	18.6	14.9	15.7	16.0	16.1
Retailing (nonfood) . . .	35.2	45.1	47.9	46.2	49.2	54.1	10.5	20.6	25.4	23.3	26.0	28.6
Percent . . .	8.0	9.9	10.0	9.6	9.7	10.2	3.1	3.8	4.2	3.6	3.8	4.0
Auto, truck rental services . . .	7.3	11.2	10.0	9.5	9.9	10.6	3.1	5.7	6.5	6.6	7.0	7.6
Automotive products and services ³ . . .	40.2	36.5	39.3	34.7	35.8	38.6	7.1	10.7	12.3	11.4	12.2	13.6
Business aids and services . . .	40.7	49.8	56.7	55.6	59.8	67.3	6.7	12.0	14.7	15.7	17.1	19.5
Employment services . . .	4.4	4.8	6.1	6.5	6.6	7.4	1.6	2.7	3.7	4.7	5.0	5.8
Tax preparation services . . .	9.2	8.1	8.5	8.3	8.2	8.5	0.3	0.4	0.5	0.6	0.7	0.7
Accounting, credit, collection, and general . . .	2.4	2.1	2.0	1.7	1.7	1.9	0.1	0.2	0.2	0.2	0.2	0.2
Real estate ⁴ . . .	17.3	13.9	15.2	15.3	16.0	17.0	3.6	4.6	5.6	5.9	6.2	6.8
Printing and copying . . .	2.8	4.5	5.6	5.9	6.5	7.4	0.4	0.9	1.2	1.5	1.6	1.9
Other . . .	4.8	16.4	19.4	17.9	20.8	25.1	0.8	3.1	3.5	3.0	3.4	4.1
Construction, home improvement, maintenance, and cleaning . . .	14.3	17.5	21.7	22.0	24.7	28.3	1.5	4.1	5.2	5.3	6.0	6.8
Convenience stores . . .	15.6	15.1	16.3	17.2	17.3	17.5	7.8	10.8	12.3	13.9	14.1	14.4
Educational products and services . . .	3.2	8.2	9.6	11.6	11.9	13.3	0.3	0.8	1.0	1.7	1.9	2.3
Equipment rental services . . .	2.2	2.5	2.8	3.0	3.0	3.4	0.4	0.7	0.7	0.7	0.7	0.8
Food retailing ⁵ . . .	15.5	18.7	20.5	21.6	23.0	25.4	7.4	10.1	11.1	10.2	10.9	11.9
Hotels and motels ⁶ . . .	6.4	7.5	9.3	9.3	10.1	11.1	9.5	14.8	17.7	19.7	21.3	23.9
Laundry, dry cleaning services . . .	3.4	2.3	2.2	2.3	2.5	2.6	0.3	0.3	0.3	0.3	0.3	0.3
Recreation, entertainment, travel . . .	4.6	7.8	8.2	8.8	9.5	10.3	0.5	2.3	4.0	3.5	4.1	4.7
Soft drink bottlers ² . . .	1.9	1.4	1.1	0.9	0.8	0.8	14.4	18.3	20.9	22.7	24.2	25.8
Miscellaneous . . .	3.6	5.5	6.8	6.9	7.3	8.4	0.4	0.9	1.5	1.7	1.9	2.2

¹ Estimated by respondents. ² Estimated by source on basis of Bureau of the Census and trade association data.

³ Includes some establishments with significant sales of nonautomotive products such as household appliances, garden supplies, etc.

⁴ Gross commissions. ⁵ Excludes convenience stores. ⁶ Includes campgrounds.

⁷ Includes soft drinks, fruit drinks andades, syrups, flavoring agents and bases. Excludes independent private label and contract-filler bottling companies, which accounted for 22 percent of the value of shipments of the total industry in recent years.

Source: U.S. Dept. of Commerce, International Trade Administration, *Franchising in the Economy, 1986-88*, 1988. Beginning 1988, International Franchise Association Educational Foundation, Inc., Washington, DC and Horwath International, New York, NY, *Franchising in the Economy, 1988-1990*, 1990. Equipment rental services included with auto, truck rental services.

No. 1300. Franchised New Car Dealerships—Summary: 1970 to 1990

[Calendar year, except as indicated]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989	1990
Dealerships ¹	Number	30,800	27,900	24,725	24,725	24,725	24,825	25,150	24,950	24,925	24,825
Sales	Bil. dol.	51.8	130.5	187.7	225.9	251.6	270.4	280.5	302.4	309.7	308.4
New cars	1,000	8,393	8,979	9,182	10,390	11,038	11,455	10,277	10,639	9,771	9,296
Used vehicles	1,000	11,283	9,717	10,930	12,420	13,330	13,460	13,400	14,940	14,510	14,290
Employment	1,000	702.9	745.2	722.4	794.8	856.9	896.7	926.0	960.1	958.2	947.6
Annual payroll	Bil. dol.	5.5	11.0	14.5	17.8	20.1	21.7	22.6	24.7	25.2	25.4
Advertising expenses	Bil. dol.	0.4	1.2	1.7	2.1	2.8	3.2	3.7	4.1	3.9	3.6
Dealer pretax profits as a percentage of sales	Percent	2.00	0.61	2.14	2.18	2.20	2.16	1.88	1.71	1.00	1.00
Inventory: ²											
Domestic:											
Total	1,000	1,409	1,506	1,209	1,413	1,510	1,687	1,724	1,543	1,677	1,450
Days' supply	Days	60	71	55	55	58	63	75	63	72	66
Imported:											
Total	1,000	(NA)	458	260	216	271	392	551	626	648	597
Days' supply	Days	(NA)	55	34	26	30	37	53	62	70	74

NA Not available. ¹ At beginning of year. ² Annual average. ³ Classification based on where automobiles are produced (i.e., automobiles manufactured by foreign companies but produced in the United States are classified as domestic).

Source: National Automobile Dealers Association, McLean, VA, *NADA Data*, annual.

No. 1301. Wholesale Trade—Summary: 1958 to 1987

[Data prior to 1972 based on earlier editions of Standard Industrial Classification (SIC) code. Comparability of data over time is affected by changes in the SIC code; for details, see source. See also *Historical Statistics, Colonial Times to 1970*, series T 43-47, and T 274-279.]

ITEM	Unit	1958	1963	1967	1972 ¹	1977 ¹	1982 ¹	1987 ¹	1987 ²
Firms, total ³	1,000	(NA)	232	233	276	289	335	(NA)	364
Establishments, total ³	1,000	287	308	311	370	383	435	467	470
With sales of \$1,000,000 or more	1,000	(NA)	62	75	103	152	(NA)	(NA)	222
Sales, all establishments	Bil. dol.	286	358	460	695	1,258	1,998	2,524	2,525
Merchant wholesalers	Bil. dol.	122	157	206	354	678	1,159	1,477	1,478
Inventories, end of year	Bil. dol.	15.0	20.1	28.1	45.7	82.3	130.7	(NA)	165.1
Payroll, entire year	Bil. dol.	13.2	18.1	23.9	36.9	58.3	95.2	133.2	133.4
Paid employees, Mar. 12 workweek ⁴	1,000	2,808	3,089	3,519	4,026	4,397	4,985	5,581	5,596

NA Not available. ¹ Based on 1972 SIC code. ² Based on 1987 SIC code. ³ Through 1977 number of firms and establishments in business at end of year; beginning 1982 number of firms and establishments in business at any time during year. ⁴ 1958 and 1963 data for workweek including Nov. 15.

No. 1302. Wholesale Trade, by Type of Operation and Kind of Business: 1982 and 1987

[Based on 1972 Standard Industrial Classification code; see text, section 13. See *Historical Statistics, Colonial Times to 1970*, series T 274-287 and T 352-369 for similar but not comparable data]

TYPE OF OPERATION AND KIND OF BUSINESS	ESTABLISHMENTS ¹ (1,000)		SALES (mil. dol.)		ANNUAL PAYROLL (mil. dol.)		PAID EMPLOYEES ² (1,000)	
	1982	1987	1982	1987	1982	1987	1982	1987
Wholesale trade	435.1	466.7	1,997,895	2,523,688	55,209	133,153	4,985	5,581
Merchant wholesalers	353.1	388.1	1,159,334	1,477,132	69,936	100,210	3,918	4,461
Other operating types	82.1	78.6	838,561	1,048,557	25,273	32,944	1,067	1,120
Durable goods	267.4	292.8	881,212	1,258,483	57,368	82,248	2,913	3,303
Motor vehicles, automotive equipment	41.1	43.0	187,607	(D)	7,524	(D)	433	(D)
Furniture, home furnishings	13.1	14.5	32,452	48,123	2,367	3,652	126	153
Lumber, construction materials	17.9	19.1	50,694	79,946	3,429	5,476	184	231
Sporting, recreational, photographic goods ³	7.6	8.9	26,980	40,965	1,646	2,312	85	97
Metals and minerals, except petroleum	10.6	11.1	102,690	114,528	3,359	4,038	148	143
Electrical goods	30.4	35.3	120,062	(D)	7,462	(D)	357	(D)
Hardware, plumbing, heating equipment	21.6	23.1	43,529	57,126	4,051	5,610	217	235
Machinery, equipment, supplies	103.4	114.4	263,309	336,976	24,804	35,612	1,192	1,353
Miscellaneous	21.7	23.4	53,889	75,506	2,726	3,777	171	184
Nondurable goods	167.8	173.9	1,116,683	1,265,205	37,841	50,905	2,072	2,278
Paper, paper products	14.5	16.8	53,493	83,173	3,586	5,202	187	228
Drugs, drug proprietaries ⁴	4.0	4.9	33,987	64,280	1,975	2,968	106	120
Apparel, piece goods, notions	15.0	16.9	55,897	81,476	2,897	4,661	144	181
Groceries and related products	40.4	42.1	288,659	380,945	12,269	16,729	674	763
Farm-product raw materials	14.4	12.6	153,419	117,606	1,839	1,847	136	117
Chemicals, allied products	11.2	12.7	76,103	94,620	2,902	3,847	124	131
Petroleum, petroleum products	20.3	16.7	296,995	234,874	3,433	3,658	188	175
Beer, wines, distilled alcoholic beverages	6.7	5.8	42,122	49,433	3,091	3,849	141	146
Miscellaneous	41.2	45.3	116,008	158,800	5,849	8,143	372	417

D Data withheld to avoid disclosure. ¹ Number of establishments in business at any time during the year. ² For pay period including March 12. ³ Includes toys, hobby goods, and supplies. ⁴ Includes druggists sundries.

Source of tables 1301 and 1302: U.S. Bureau of the Census, *U.S. Census of Business: 1958*, vol. III; *1963*, vol. IV; *1967*, vol. III; and *Census of Wholesale Trade: 1972*, vol. I; *1977*, WC77-A-52; *1982*, WC82-A-52; and *1987*, WC87-A-52.

No. 1303. Merchant Wholesalers—Summary: 1986 to 1991

[Inventories and stock/sales ratios, as of December, seasonally adjusted. Data reflect latest revision. Based on Current Business Survey; see Appendix III. See *Historical Statistics, Colonial Times to 1970*, series T 280-371, for related sales data.]

1987 SIC code ¹	KIND OF BUSINESS	1986	1987	1988	1989	1990	1991
SALES (bil. dol.)							
50	Merchant wholesalers	1,395.9	1,492.1	1,623.1	1,728.5	1,790.4	1,741.6
501	Durable goods	698.1	747.1	815.6	863.2	890.3	846.5
502	Motor vehicles and automotive equipment	152.0	156.2	165.6	164.7	169.7	154.4
503	Furniture and home furnishings	24.5	26.9	29.2	29.7	30.5	28.1
504	Lumber and other construction material	51.8	58.4	58.9	57.6	55.8	52.6
505	Professional and commercial equipment and supplies	74.2	84.7	94.6	110.8	116.1	116.4
506	Metals and minerals, except petroleum	58.9	67.6	81.6	86.9	88.9	76.3
507	Electrical goods	86.9	91.7	99.4	110.5	113.1	113.7
508	Hardware, plumbing and heating equipment	39.0	41.4	42.9	44.0	45.1	41.3
509	Machinery, equipment and supplies	115.7	120.0	139.4	149.6	157.3	156.2
51	Miscellaneous durable goods	95.1	100.2	104.0	109.4	113.7	107.3
511	Nondurable goods	697.8	745.0	807.4	865.2	900.2	895.1
512	Paper and paper products	35.8	40.8	46.6	50.0	50.7	48.6
513	Drugs, drug proprietaries and druggists' sundries	29.2	34.0	39.3	43.0	47.9	54.2
514	Apparel, piece goods and notions	42.4	46.6	51.9	59.0	60.8	60.7
515	Groceries and related products	222.4	233.0	228.1	242.7	246.6	254.4
516	Farm-product raw materials	94.1	102.2	127.9	128.5	123.2	118.0
517	Chemicals and allied products	23.6	26.5	35.9	37.6	43.0	44.8
518	Petroleum and petroleum products	116.4	124.9	124.4	140.7	156.3	138.7
519	Beer, wine, and distilled beverages	39.3	41.6	42.1	42.9	45.4	47.1
INVENTORIES (bil. dol.)							
50	Merchant wholesalers	155.4	165.8	180.7	188.6	196.9	199.0
501	Durable goods	104.2	110.0	119.7	125.8	130.8	130.6
502	Motor vehicles and automotive equipment	19.3	21.2	22.5	22.1	23.8	24.3
503	Furniture and home furnishings	3.6	4.2	4.4	4.4	4.3	4.0
504	Lumber and other construction material	5.1	5.5	5.7	5.8	5.5	5.7
505	Professional and commercial equipment and supplies	11.8	11.7	12.8	14.3	14.9	15.2
506	Metals and minerals, except petroleum	8.3	8.7	10.6	10.6	10.2	8.9
507	Electrical goods	12.6	13.0	14.0	15.3	15.7	15.8
508	Hardware, plumbing and heating equipment	6.4	6.6	6.7	7.2	6.9	6.6
509	Machinery, equipment and supplies	26.3	27.7	31.6	34.3	38.3	37.2
51	Miscellaneous durable goods	10.8	11.4	11.3	11.8	11.2	12.8
511	Nondurable goods	51.2	55.8	61.0	62.8	66.1	68.4
512	Paper and paper products	3.4	3.5	4.0	4.1	4.3	4.0
513	Drugs, drug proprietaries and druggists' sundries	4.1	4.8	5.3	5.7	6.1	7.1
514	Apparel, piece goods and notions	7.4	7.7	8.2	9.8	10.2	10.0
515	Groceries and related products	12.1	12.5	12.5	13.1	13.2	14.8
516	Farm-product raw materials	6.2	7.2	9.2	7.8	8.3	8.2
517	Chemicals and allied products	2.3	2.5	2.9	2.6	3.0	2.9
518	Petroleum and petroleum products	3.7	3.4	3.6	3.9	4.4	4.6
519	Beer, wine, and distilled beverages	3.9	4.0	3.9	3.8	4.0	4.3
STOCK/SALES RATIO							
50	Merchant wholesalers	1.31	1.31	1.28	1.28	1.32	1.37
501	Durable goods	1.73	1.74	1.67	1.73	1.80	1.85
502	Motor vehicles and automotive equipment	1.44	1.59	1.58	1.70	1.76	1.94
503	Furniture and home furnishings	1.75	1.82	1.71	1.80	1.75	1.81
504	Lumber and other construction material	1.13	1.12	1.12	1.29	1.33	1.25
505	Professional and commercial equipment and supplies	1.76	1.65	1.47	1.43	1.49	1.55
506	Metals and minerals, except petroleum	1.62	1.43	1.46	1.51	1.40	1.42
507	Electrical goods	1.68	1.76	1.58	1.58	1.73	1.67
508	Hardware, plumbing and heating equipment	1.93	1.90	1.86	1.94	1.83	1.92
509	Machinery, equipment and supplies	2.58	2.75	2.56	2.75	2.92	2.79
51	Miscellaneous durable goods	1.48	1.33	1.27	1.21	1.20	1.45
511	Nondurable goods	0.88	0.88	0.88	0.84	0.87	0.92
512	Paper and paper products	1.09	0.93	1.01	0.97	1.04	0.98
513	Drugs, drug proprietaries and druggists' sundries	1.54	1.63	1.51	1.48	1.53	1.46
514	Apparel, piece goods, and notions	2.16	1.89	1.83	1.82	1.88	1.96
515	Groceries and related products	0.66	0.66	0.61	0.64	0.65	0.69
516	Farm-product raw materials	0.79	0.84	0.86	0.75	0.84	0.84
517	Chemicals and allied products	1.13	0.96	0.99	0.79	0.79	0.78
518	Petroleum and petroleum products	0.39	0.34	0.35	0.29	0.32	0.41
519	Beer, wine, and distilled beverages	1.15	1.16	1.11	1.07	0.96	1.07
	Miscellaneous nondurable goods	1.00	1.12	1.19	1.11	1.19	1.20

¹ Based on 1987 Standard Industrial Classification code; see text, section 13.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Wholesale Trade Sales and Inventories*, January 1986 Through March 1992, (BW/91-RV).

No. 1304. Wholesale Trade—Summary, by State: 1987

[Kind-of-business classification based on 1972 Standard Industrial Classification code; see text, section 13]

DIVISION AND STATE	Estab- lish- ments ¹	Sales (bil. dol.)	Paid employ- ees ² (1,000)	Annual payroll (mil. dol.)	DIVISION AND STATE	Estab- lish- ments ¹	Sales (bil. dol.)	Paid employ- ees ² (1,000)	Annual payroll (mil. dol.)
U.S. . .	466,680	2,523.7	5,580.8	133,153	VA . . .	8,369	44.7	114.6	2,618
N.E. . .	23,628	146.1	322.6	8,482	WV . . .	2,421	5.9	24.2	476
ME	1,845	6.5	22.6	460	NC . . .	12,037	57.0	139.8	3,059
NH	1,952	6.8	22.5	560	SC . . .	5,229	17.1	54.3	1,063
VT	978	2.8	10.2	205	GA . . .	13,580	86.8	177.8	4,111
MA	11,029	74.7	160.5	4,386	E.S.C. . .	24,778	109.3	296.3	6,031
RI	1,708	6.0	22.2	489	KY . . .	5,582	24.4	63.3	1,237
CT	6,116	49.2	84.6	2,382	TN . . .	8,745	48.3	115.8	2,517
M.A. . .	78,914	532.7	983.3	25,987	AL . . .	6,626	24.3	77.3	1,545
NY	41,647	283.7	465.4	12,636	MS . . .	3,825	12.2	39.9	732
NJ	17,575	144.6	270.7	7,524	W.S.C. . .	52,344	256.6	569.0	12,555
PA	19,692	104.4	247.2	5,827	AR . . .	3,976	12.8	38.8	704
E.N.C. . .	75,156	431.6	941.4	22,925	LA . . .	7,598	31.5	80.3	1,650
OH	18,577	104.0	247.5	5,757	OK . . .	5,913	20.2	54.7	1,115
IN	9,611	40.5	107.8	2,338	TX . . .	34,857	192.1	395.2	9,085
IL	23,521	167.4	305.9	8,072	MT . . .	24,666	84.1	256.1	5,444
MI	14,682	86.0	178.7	4,562	MT . . .	1,792	4.4	14.8	264
WI	8,765	33.7	101.4	2,195	ID . . .	2,112	5.1	20.7	353
W.N.C. . .	40,506	196.0	441.1	9,608	WY . . .	1,016	2.2	6.3	125
MN	9,436	55.3	114.1	2,820	CO . . .	7,038	30.0	76.1	1,768
IA	6,983	24.5	65.8	1,279	NM . . .	2,373	5.1	22.0	421
MO	10,605	53.5	124.8	2,815	AZ . . .	5,826	20.8	64.5	1,418
ND	2,044	6.0	17.5	324	UT . . .	2,934	11.1	34.1	717
SD	1,783	5.2	15.3	255	NV . . .	1,575	5.5	17.6	378
NE	3,949	21.3	43.0	834	Pac. . .	71,398	406.6	875.7	22,075
KS	5,706	30.2	60.6	1,281	WA . . .	9,250	41.5	102.3	23,374
S.A. . .	75,290	360.7	895.3	20,048	OR . . .	5,878	29.9	63.7	14,461
DE	985	7.9	15.5	452	CA . . .	53,508	327.2	682.4	17,622
MD	6,636	41.1	99.3	2,493	AK . . .	773	2.7	7.1	204
DC	551	2.8	8.8	231	HI . . .	1,989	5.4	20.1	415

¹ Number of establishments in business at any time during the year. ² For the pay period including March 12.

Source: U.S. Bureau of the Census, 1987 Census of Wholesale Trade, Geographic Area Series, WC87-A-1 to 52.

No. 1305. Wholesale Trade—Establishments and Sales by Selected Metropolitan Areas: 1987

[Kind-of-business classification based on 1987 Standard Industrial Classification code; see text, section 13. Metropolitan statistical areas (MSA's) and consolidated metropolitan statistical areas (CMSA's) are as defined by the U.S. Office of Management and Budget as of June 30, 1987; see Appendix II for definitions and components]

METROPOLITAN AREA	ALL ESTABLISHMENTS ¹			MERCHANT WHOLESALEERS	
	Estab- lish- ments	Sales		Estab- lish- ments	Sales (bil. dol.)
		Amount (bil. dol.)	Percent of U.S. total		
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	47,892	398.6	15.8	40,796	271.7
Los Angeles-Anaheim-Riverside, CA CMSA	28,918	203.5	8.1	24,155	137.7
Chicago-Gary-Lake County, IL-IN-WI CMSA	17,043	139.8	5.5	12,978	63.9
San Francisco-Oakland-San Jose, CA CMSA	12,714	83.4	3.3	10,089	40.4
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	11,192	73.6	2.9	8,859	33.6
Houston-Galveston-Brazoria, TX CMSA	8,258	72.4	2.9	6,651	42.5
Dallas-Fort Worth, TX CMSA	10,158	71.1	2.8	7,523	27.3
Atlanta, GA MSA	7,963	70.0	2.8	5,655	23.1
Boston-Lawrence-Salem, MA-NH CMSA	8,694	66.5	2.6	6,807	36.0
Detroit-Ann Arbor, MI CMSA	8,122	60.5	2.4	6,141	23.0
Minneapolis-St. Paul, MN-WI MSA	5,645	44.7	1.8	4,189	24.3
Cleveland-Akron-Lorain, OH CMSA	5,675	34.2	1.4	4,270	14.4
Miami-Fort Lauderdale, FL CMSA	9,924	33.5	1.3	8,637	24.1
St. Louis, MO-IL MSA	5,057	31.7	1.3	3,875	15.1
Seattle-Tacoma, WA CMSA	5,745	31.3	1.2	4,490	18.2
Washington, DC-MD-VA MSA	4,353	31.2	1.2	3,509	13.5
Kansas City, MO-KS MSA	3,710	30.1	1.2	2,726	14.6
Cincinnati-Hamilton, OH-KY-IN CMSA	3,283	26.9	1.1	2,358	9.5
Pittsburgh-Beaver Valley, PA CMSA	4,051	26.5	1.1	3,140	10.7
Charlotte-Gastonia-Rock Hill, NC-SC MSA	3,394	25.7	1.0	2,477	7.7

¹ Includes other types of operations, not shown separately.

Source: U.S. Bureau of the Census, 1987 Census of Wholesale Trade, Geographic Area Series, WC87-A-52.

No. 1306. Selected Service Industries—Summary: 1982 and 1987

[For establishments with payroll]

1972 SIC code ¹	KIND OF BUSINESS	ESTABLISH- MENTS ² (1,000)		RECEIPTS OR EXPENSES ³ (mil. dol.)		PAID EMPLOYEES ⁴ (1,000)	
		1982	1987	1982	1987	1982	1987
(X) 70	Firms subject to Federal income tax ⁵ Hotels, rooming houses, camps, and other lodging places	1,339.2	1,524.6	426,982	752,474	11,106	15,688
72	Personal services	44.3	46.8	33,215	51,865	1,102	1,411
73	Business services	179.6	196.1	22,980	35,133	970	1,209
75	Automotive repair, services, and parking	230.1	339.3	106,866	216,807	3,152	5,250
76	Miscellaneous repair services	123.6	151.2	30,695	51,423	553	785
78, 79	Amusement and recreation services ⁶	58.2	65.5	14,133	20,838	300	346
80 ex. 806	Health services, except hospitals	73.0	74.3	33,115	52,808	804	929
81	Legal services	360.4	405.4	95,610	162,569	2,433	3,226
823, 4, 9	Selected educational services	122.7	138.2	34,325	66,998	569	808
83	Social services	7.8	10.6	2,400	4,882	68	109
891	Engineering, architectural, surveying services	29.7	43.1	3,636	7,330	222	357
893	Accounting, auditing, and bookkeeping services	47.6	62.3	34,315	53,563	581	747
(X) 805, 8, 9	Firms exempt from Federal income tax ⁵ Selected health services	55.3	69.8	14,596	24,483	330	448
83	Social services	10.2	13.2	10,438	19,084	476	684
861,2,4,9	Selected membership organizations	54.2	63.0	16,455	26,884	904	1,110
		63.2	68.0	15,093	22,028	493	539

¹ Not applicable. ² Based on 1972 Standard Industrial Classification; see text, section 13. ³ Number of establishments in business at any time during the year. ⁴ Receipts refer to establishments subject to Federal income tax. Expenses refer to establishments exempt from Federal income tax. ⁵ For pay period including March 12. ⁶ Excludes hospitals. Includes other kinds of business, not shown separately. ⁶ Includes motion pictures.

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, Geographic Area Series, SC87-A-52.

No. 1307. Service Industries—Summary of Establishments, by State: 1987

[Based on 1987 Standard Industrial Classification code; see text, section 13]

DIVI- SION AND STATE	FIRMS SUBJECT TO FEDERAL INCOME TAX			TAX-EXEMPT FIRMS ³		DIVI- SION AND STATE	FIRMS SUBJECT TO FEDERAL INCOME TAX			TAX-EXEMPT FIRMS ³	
	Estab- lish- ments ¹ (1,000)	Re- ceipts (mil. dol.)	Paid employ- ees ² (1,000)	Estab- lish- ments ¹	Reve- nues (mil. dol.)		Estab- lish- ments ¹ (1,000)	Re- ceipts (mil. dol.)	Paid employ- ees ² (1,000)	Estab- lish- ments ¹	Reve- nues (mil. dol.)
U.S.	6,254.5	668,343	16,055	175,829	267,490	VA	137.3	22,172	439	3,885	6,304
N.E.	385.9	55,493	997	13,154	19,577	WV	32.2	3,249	67	1,407	1,625
ME	32.8	2,728	58	1,406	1,258	NC	130.9	14,354	331	3,884	5,083
NH	32.1	3,541	68	1,127	984	SC	62.6	7,146	170	1,756	2,217
VT	18.2	1,591	37	897	587	GA	134.3	20,644	415	3,140	5,131
MA	184.0	30,252	523	6,005	11,115	FL	340.8	50,997	975	7,028	9,875
RI	24.5	2,955	61	895	1,417	E.S.C.	286.0	33,760	723	8,838	11,777
CT	94.3	14,426	250	2,824	4,216	KY	74.9	7,267	166	2,213	2,655
M.A.	940.7	156,935	2,582	28,944	54,676	TN	101.5	13,449	283	3,010	4,320
NY	476.5	83,524	1,293	13,891	30,583	AL	69.1	9,198	190	1,947	3,024
NJ	198.3	35,953	596	4,196	7,618	MS	40.5	3,846	84	1,468	1,778
PA	265.9	37,458	694	10,857	16,475	W.S.C.	682.4	81,375	1,545	14,803	19,860
E.N.C.	925.7	120,455	2,459	30,592	49,332	AR	49.1	4,295	94	1,579	1,751
OH	232.1	29,471	648	8,222	12,973	LA	92.3	11,583	241	2,087	3,334
IN	117.5	12,605	282	4,396	5,389	OK	91.1	7,575	149	2,133	2,616
IL	277.0	40,742	730	7,907	15,201	TX	449.9	57,922	1,061	9,004	11,959
MI	203.5	26,574	533	6,205	10,827	ML	393.6	50,083	994	9,868	11,371
WI	95.6	11,063	265	3,862	4,942	MT	24.6	1,680	36	1,170	1,779
W.N.C.	459.9	46,696	1,021	17,372	20,282	ID	25.7	2,355	48	727	594
MIN	121.9	13,196	295	4,412	5,781	CO	125.8	13,236	256	2,780	3,580
IA	69.0	5,830	131	3,122	2,928	NM	36.4	4,655	88	1,232	1,124
MO	122.9	15,173	324	3,679	6,078	AZ	91.8	11,981	244	2,020	3,241
ND	16.6	1,244	28	920	843	UT	44.6	4,407	94	768	1,114
SD	17.9	1,177	27	957	757	NV	30.3	10,728	206	531	536
NE	42.3	4,004	89	1,679	1,583	Pac.	1,180.2	175,020	2,802	25,457	38,437
KS	69.3	6,072	128	2,603	2,312	WA	131.3	14,495	277	4,238	4,578
S.A.	1,000.3	148,531	2,932	27,001	42,376	OR	82.1	7,509	157	2,467	2,611
DE	15.1	2,313	46	562	730	CA	918.5	146,288	2,248	17,048	29,382
MD	125.0	19,369	369	3,156	5,570	AK	18.2	1,826	28	706	644
DC	22.1	8,287	121	2,183	5,841	HI	30.1	4,902	92	998	1,222

¹ Number of establishments in business at any time during year. ² For the pay period including March 12. ³ Covers only establishments with payroll.

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, Geographic Area Series, SC87-A-1 to 52 and Nonemployer Statistics Series, SC87-N-1 to 4.

No. 1308. Service Industries—Summary of Establishments, by Tax Status: 1987

[Data for firms subject to Federal income tax cover all establishments, except as noted. Data for firms exempt from Federal income tax cover only establishments with payroll. See *Historical Statistics, Colonial Times to 1970*, series T 391-443, for similar but not comparable data]

1987 SIC code ¹	KIND OF BUSINESS	Establishments ² (1,000)	Receipts or revenues ³ (mil. dol.)	Annual payroll (mil. dol.)	Paid employees ⁴ (1,000)	Receipts or revenues per establishment ⁵ (\$1,000)	Annual payroll per employee (dol.)
(X)	Firms subject to Federal income tax⁶	6,254.5	868,343	289,807	16,054.7	138.8	18,051
70 ex. 704	Hotels, rooming houses, camps, and other lodging places ⁷	85.7	53,630	14,452	1,410.8	625.8	10,244
701	Hotels and motels	63.4	51,633	14,135	1,380.2	814.4	10,241
72	Personal services ⁸	1,037.4	43,247	10,853	1,105.0	41.7	9,822
721	Laundry, cleaning, and garment services	108.6	14,184	4,388	408.3	130.6	10,746
722	Photographic studios, portrait	56.2	2,929	514	50.1	52.1	10,253
723, 4	Beauty and barber shops	407.3	11,990	3,538	390.7	29.4	9,055
726	Funeral service and crematories	22.3	5,668	1,362	82.6	254.2	16,479
73	Business services ⁹	1,433.2	188,856	66,456	4,414.4	131.8	15,054
731	Advertising	79.2	16,802	5,537	181.6	212.1	30,493
732	Consumer credit, mercantile reporting agencies ¹⁰	87.1	8,412	1,415	82.8	9582.8	17,078
733	Mailing, reproduction, commercial art ⁹	827.2	8,124	3,945	210.6	8455.6	18,729
734	Services to dwellings and other buildings	290.4	15,649	6,555	746.0	53.9	8,788
735	Miscellaneous equipment rental and leasing	49.1	15,472	3,579	185.3	315.1	19,319
736	Personnel supply services	43.2	20,336	13,590	1,397.1	470.7	9,727
737	Computer programming, data processing ¹⁰	140.5	56,004	19,142	637.4	398.6	30,031
7381, 2	Detective agencies and protective services	45.2	9,303	5,040	475.8	205.8	10,594
75	Automotive repair, services, and parking	388.2	58,278	11,690	785.3	150.1	14,886
751	Automotive rental and leasing, without drivers	19.9	16,679	2,366	134.6	838.1	17,578
752	Automobile parking	10.5	2,691	491	45.7	256.3	10,751
753	Automotive repair shops	301.3	34,182	7,727	485.6	113.4	15,913
754	Automotive services, except repair	56.4	4,726	1,106	119.4	83.8	9,258
76	Miscellaneous repair services ⁵	247.6	24,597	6,416	345.8	99.3	18,551
762	Electrical repair shops	65.7	7,584	2,107	107.4	115.4	19,618
78, 79, 84	Amusement and recreation services ⁵	467.0	64,524	15,474	1,094.4	138.2	14,139
781, 2	Motion picture prod., distribution, services	37.1	20,778	4,973	171.3	560.1	29,029
783	Motion picture theaters	8.6	4,056	584	94.1	471.6	6,211
784	Video tape rental	24.7	2,920	581	79.6	118.2	7,300
792	Theatrical producers, bands, entertainers ¹²	186.9	7,725	1,807	55.2	41.3	28,092
793	Bowling centers	8.3	2,597	702	99.8	313.1	7,039
794	Commercial sports	50.6	5,966	2,047	75.5	117.9	27,106
7991	Physical fitness facilities	22.3	2,721	745	104.9	122.0	7,097
7996	Amusement parks	0.7	8,470	820	60.4	84,663.8	13,566
7997	Membership sports and recreation clubs	87.7	8,700	1,173	112.7	483.1	10,403
80	Health services	800.6	196,211	78,820	3,592.5	245.1	21,940
801	Offices and clinics of doctors of medicine	297.7	96,698	43,856	1,131.6	324.8	38,756
802	Offices and clinics of dentists	131.3	25,258	8,760	491.5	192.4	17,822
8041	Offices and clinics of chiropractors	31.4	3,707	900	58.0	118.0	15,504
8042	Offices and clinics of optometrists	23.1	3,755	893	57.9	162.8	15,429
805	Nursing and personal care facilities	38.3	20,570	9,465	961.6	537.1	9,843
806	Hospitals	81.4	18,720	6,582	366.5	84,136.2	17,958
807	Medical and dental laboratories	84.8	87,114	2,587	131.8	479.4	19,474
808	Home health care services	85.1	8,024	1,578	184.8	8595.3	8,542
81	Legal services	273.2	72,115	26,078	807.6	264.0	32,291
823, 4, 9	Selected educational services ⁵	155.9	6,102	1,657	109.4	39.1	15,144
824	Vocational schools	3.7	3,058	1,086	85.3	826.1	16,637
83	Social services	319.5	9,561	2,971	357.3	29.9	8,315
835	Child day care services	248.7	4,284	1,307	198.7	17.2	6,547
871	Engineering, architectural, and surveying services	195.3	57,051	23,175	747.0	292.1	31,024
872	Accounting, auditing, and bookkeeping services	250.1	26,612	10,204	448.1	106.4	22,768
873 ex. 8733	Research, development, and testing services ¹³	812.4	84,184	5,615	222.2	81,144.8	25,266
874	Management and public relations services	416.8	43,381	14,515	551.8	103.6	26,303
(X)	Firms exempt from Federal income tax⁵	175.8	267,490	117,976	6,736.7	1,521.3	17,513
7997	Membership sports and recreation clubs	6.5	3,694	1,467	116.4	564.0	12,607
84	Museums, art galleries, botanical gardens, and zoos	2.7	2,597	778	52.1	961.9	14,933
805	Nursing and personal care facilities	4.1	8,201	4,264	371.5	1,995.5	11,479
806	Hospitals	5.9	172,001	82,342	3,964.1	29,137.9	20,772
83	Social services ⁵	63.0	31,552	11,617	1,109.5	500.8	10,470
832	Individual and family social services	21.9	8,585	3,629	312.7	397.2	11,806
833	Job training, vocational rehabilitation services	5.0	3,664	1,741	238.2	732.0	7,307
836	Residential care	10.5	6,125	2,768	240.5	584.8	11,507
861	Business associations	12.3	6,756	1,996	87.5	549.3	22,819
862	Professional membership organizations	5.6	4,110	1,133	49.3	732.6	22,981
864	Civic, social, and fraternal associations	40.4	8,569	2,779	322.9	212.0	8,604
873	Research, development, and testing services	3.2	8,303	3,088	107.8	2,623.5	28,643

X Not applicable. ¹ Based on 1987 Standard Industrial Classification; see text, section 13. ² Represents the number of establishments in business at any time during year. ³ Receipts refer to establishments subject to Federal income tax. Revenues refer to establishments exempt from Federal income tax. ⁴ For pay period including March 12. ⁵ Includes other kinds of businesses, not shown separately. ⁶ Excludes membership lodging. ⁷ Includes adjustment and collection agencies.

⁸ Covers only establishments with payroll. ⁹ Includes photography and stenographic services. ¹⁰ Includes other computer related services. ¹¹ Includes motion pictures and museums. ¹² Excludes motion picture producers and includes orchestras.

¹³ Excludes noncommercial research organizations.

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, SC87-A-52 and SC87-N-1. # # end # #

No. 1309. Services—Establishments, Employees, and Payroll: 1987 to 1989

[Covers establishments with payroll. Excludes government employees, railroad employees, self-employed persons, etc. For statement on methodology, see Appendix III]

1987 SIC code ¹	KIND OF BUSINESS	ESTABLISHMENTS (1,000)			EMPLOYEES (1,000)		PAYROLL (bil. dol.)	
		1987	1988	1989	1988	1989	1988	1989
(I) Services, total²		1,980.1	1,937.5	1,977.3	25,143	27,339	477.8	543.8
70 Hotels and other lodging places ²		51.4	49.0	50.0	1,385	1,468	15.8	17.4
701 Hotels and motels		(NA)	38.8	39.5	1,333	1,409	15.2	16.7
72 Personal services ²		184.4	177.3	181.2	1,101	1,142	11.7	12.5
721 Laundry, cleaning, and garment services ²		(NA)	48.1	49.4	408	409	4.7	4.9
7215 Coin-operated laundries and cleaning		(NA)	11.7	11.6	45	45	0.4	0.4
7216 Drycleaning plants, except rug		(NA)	19.4	19.6	158	156	1.6	1.6
723 Beauty shops		(NA)	75.3	74.9	363	357	3.5	3.6
726 Funeral service and crematories		(NA)	15.1	15.1	81	85	1.5	1.6
73 Business services ²		248.0	250.5	263.6	4,385	4,749	78.0	87.1
731 Advertising		(NA)	17.9	17.7	194	199	6.5	6.8
7311 Advertising agencies		(NA)	12.0	11.0	136	139	4.9	5.1
733 Mailing, reproduction, and stenographic services		(NA)	25.2	24.5	219	221	4.6	4.7
734 Services to buildings		(NA)	44.0	45.3	743	765	7.3	7.7
735 Miscellaneous equipment rental and leasing		(NA)	24.0	22.3	193	207	4.3	4.7
736 Personnel supply services ²		(NA)	24.4	25.2	1,247	1,390	16.2	18.1
7361 Employment agencies		(NA)	11.8	12.0	169	202	2.9	3.4
7363 Help supply services		(NA)	12.6	12.5	1,076	1,154	13.2	14.3
737 Computer and data processing services ²		(NA)	37.9	37.8	679	722	22.7	25.0
7371 Computer programming services		(NA)	13.2	12.1	203	208	7.8	8.1
7374 Data processing and preparation		(NA)	6.8	6.8	218	223	5.4	5.8
738 Miscellaneous business services		(NA)	60.5	55.4	1,001	1,019	14.3	15.6
7381 Detective and armored car services		(NA)	9.4	8.9	436	438	4.4	4.7
75 Automotive repair, services, and parking ²		149.8	145.5	151.1	813	843	13.2	14.0
751 Automotive rentals, no drivers		(NA)	11.4	10.7	150	144	2.8	2.8
753 Automotive repair shops		(NA)	108.2	111.2	483	495	8.5	9.0
7532 Top and body repair and paint shops		(NA)	30.7	30.3	162	161	3.0	3.1
7538 General automotive repair shops		(NA)	52.2	54.4	202	211	3.4	3.6
754 Automotive services, except repair		(NA)	15.5	16.3	128	140	1.3	1.4
76 Miscellaneous repair services		64.1	61.8	62.9	356	373	7.3	7.8
762 Electrical repair shops		(NA)	17.1	16.5	107	111	2.4	2.5
78 Motion pictures ²		34.9	33.5	35.2	370	348	6.7	6.9
781 Motion picture production and services		(NA)	9.0	8.8	159	129	4.5	4.6
784 Video tape rental		(NA)	15.5	17.2	87	96	0.6	0.7
79 Amusement and recreation services ²		72.4	70.5	70.3	909	956	13.2	14.1
7997 Membership sports and recreation clubs		(NA)	13.5	13.1	223	232	3.0	3.2
80 Health services ²		424.2	417.2	425.1	7,222	8,430	159.1	195.6
801 Offices and clinics of medical doctors		(NA)	192.0	192.2	1,242	1,304	51.1	55.7
802 Offices and clinics of dentists		(NA)	102.2	103.3	499	513	10.0	10.6
8041 Offices and clinics of chiropractors		(NA)	20.1	21.7	61	67	1.0	1.2
8042 Offices and clinics of optometrists		(NA)	15.3	15.0	58	59	1.0	1.0
805 Nursing and personal care facilities		(NA)	18.0	18.2	1,358	1,420	15.1	16.6
806 Hospitals		(NA)	5.2	6.2	3,213	4,197	67.2	94.5
807 Medical and dental laboratories		(NA)	14.3	14.6	139	149	3.0	3.4
808 Home health care services		(NA)	7.5	7.5	303	318	3.2	3.9
81 Legal services		139.8	135.7	137.3	849	892	30.3	32.9
82 Educational services ²		34.2	33.2	34.1	1,631	1,704	25.0	27.2
821 Elementary and secondary schools		(NA)	14.5	14.3	434	440	5.7	6.1
822 Colleges and universities		(NA)	3.0	3.1	1,013	1,055	16.3	17.8
83 Social services ²		104.2	104.8	108.5	1,532	1,630	16.6	18.4
832 Individual and family services		(NA)	25.9	26.0	355	371	4.4	4.9
833 Job training and related services		(NA)	6.7	6.6	271	280	2.3	2.5
835 Child day care services		(NA)	39.2	38.8	368	383	2.8	3.1
836 Residential care		(NA)	19.3	19.7	358	388	4.2	4.8
86 Membership organizations ²		221.6	214.3	219.7	1,778	1,837	19.4	20.9
861 Business associations		(NA)	12.0	12.2	92	95	2.3	2.5
863 Labor organizations		(NA)	20.0	19.5	179	179	2.5	2.6
864 Civic and social associations		(NA)	39.0	39.6	330	346	3.1	3.4
866 Religious organizations		(NA)	126.8	131.8	1,036	1,072	8.7	9.4
87 Engineering and management services ²		204.1	199.0	189.6	2,302	2,384	67.7	72.7
8711 Engineering services		(NA)	35.6	32.7	592	624	21.0	22.5
8712 Architectural services		(NA)	17.1	16.0	141	143	4.5	4.7
872 Accounting, auditing, and bookkeeping		(NA)	66.2	64.9	498	509	11.9	12.7
873 Research and testing services		(NA)	15.1	13.9	360	371	10.3	11.1
8731 Commercial physical research		(NA)	3.9	3.4	159	159	5.6	6.0
8741 Management services		(NA)	17.1	15.1	283	285	6.9	7.3
8742 Management consulting services		(NA)	26.0	22.7	218	217	7.4	7.7

NA Not available. ¹ Based on 1987 Standard Industrial Classification; see text, section 13. ² Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

Service Industries Receipts

777

No. 1310. Service Industries—Annual Receipts of Taxable Firms: 1980 to 1990

[In billions of dollars. Estimated]

1972 SIC code ¹	KIND OF BUSINESS	1980	1985	1986	1987	1988	1989	1990
		1980	1985	1986	1987	1988	1989	1990
70	Hotels, camps, and other lodging places	(NA)	45.9	48.1	54.1	58.9	61.1	63.7
701	Hotels, motels, and tourist courts	27.0	43.5	45.8	51.6	56.1	58.1	60.5
72	Personal services ²	25.1	39.4	42.6	47.0	54.1	59.6	65.2
721	Laundry, cleaning, and garment services	9.2	12.8	13.3	14.2	15.8	16.7	17.5
722	Photographic studios, portrait	(NA)	2.4	2.7	2.9	3.3	3.5	3.8
723	Beauty shops	5.8	9.0	9.7	10.6	11.7	13.0	13.6
726	Funeral service and crematories	3.5	5.2	5.4	5.7	6.1	6.2	6.5
73	Business services ²	(NA)	207.3	226.9	247.8	289.1	318.2	345.1
731	Advertising	(NA)	14.9	15.8	16.8	18.3	19.0	19.9
7311	Advertising agencies	(NA)	11.1	11.7	12.0	13.2	13.6	14.1
732	Credit reporting and collection agencies	(NA)	4.2	4.5	5.3	5.5	6.1	6.7
733	Mailing, reproduction, and stenographic services	(NA)	12.9	14.1	15.8	17.8	19.4	21.4
7331	Direct mail advertising services	(NA)	4.2	4.8	5.2	6.0	6.0	6.7
7333	Commercial photography, art, and graphics	(NA)	5.7	5.9	6.7	7.3	8.1	9.1
734	Services to dwellings and other buildings	(NA)	13.3	14.6	15.6	17.5	20.1	22.1
7342	Disinfecting and exterminating services	(NA)	2.7	2.8	3.2	3.5	3.7	4.0
7349	Cleaning and maintenance services to dwellings, and other buildings, n.e.c. ³	(NA)	10.5	11.7	12.3	13.8	16.2	17.8
736	Personnel supply services	(NA)	17.7	20.0	24.0	28.6	31.6	34.8
7361	Employment agencies	(NA)	3.4	3.7	3.9	4.8	5.6	6.7
7362	Temporary help supply services	(NA)	11.2	12.7	16.3	19.9	21.6	23.4
737	Computer and data processing services	(NA)	45.2	50.6	56.0	66.4	74.1	80.3
7372	Computer programming and other software services	(NA)	21.0	24.0	28.1	34.8	40.5	43.7
7374	Data processing services	(NA)	15.2	16.4	17.0	18.9	20.0	21.3
7379	Computer related services, n.e.c. ³	(NA)	9.0	10.1	10.9	12.8	13.6	15.3
7391	Research and development laboratories ⁴	(NA)	7.7	8.8	9.2	11.2	12.9	14.6
7392	Management, consulting, and public relations services ⁴	(NA)	38.5	42.3	44.3	52.5	57.3	61.2
7393	Detective agencies and protective services	(NA)	7.3	8.2	9.3	10.9	11.4	11.3
7394	Equipment rental and leasing services	(NA)	15.7	16.3	16.9	20.0	21.3	22.4
7395	Photofinishing laboratories	(NA)	4.7	4.9	5.1	5.6	6.1	6.0
7397	Commercial testing laboratories	(NA)	2.7	2.8	3.1	4.1	5.0	6.0
75	Automotive repair, services, and garages ²	30.5	51.8	53.9	58.3	66.2	71.4	74.5
751	Automotive rental and leasing	8.8	14.6	15.5	16.7	18.7	19.4	20.4
7512	Passenger car rental and leasing	4.7	8.8	9.4	10.0	11.2	11.7	12.5
7513	Truck rental and leasing	4.0	5.5	5.8	6.5	7.3	7.4	7.6
752	Automobile parking	(NA)	2.1	2.4	2.7	3.2	3.6	3.7
753	Automotive repair shops	18.1	30.6	31.6	34.2	38.5	41.9	43.5
76	Miscellaneous repair services	15.4	20.7	22.4	24.6	27.4	29.4	31.8
78	Motion pictures	12.5	18.9	20.9	24.8	27.4	30.6	33.0
781.2	Motion picture production, distribution, allied services	8.9	15.1	17.0	20.8	23.3	26.1	28.4
783	Motion picture theaters	(NA)	3.8	3.9	4.1	4.2	4.5	4.6
79	Amusement and recreation services ²	(NA)	29.8	32.2	34.5	37.8	40.0	44.1
792	Theatrical producers, bands, orchestras, and entertainers ⁴	(NA)	6.4	7.6	7.7	8.2	7.6	9.4
793	Bowling alleys and billiard and pool establishments	(NA)	2.7	2.7	2.7	2.9	3.1	3.3
794	Commercial sports	3.3	5.0	5.1	6.0	6.7	7.3	8.2
7996	Amusement parks	(NA)	2.6	3.0	3.5	3.9	4.3	4.8
7997	Membership sports and recreation clubs	(NA)	4.0	4.4	4.6	4.9	5.0	5.4
80	Health services ²	(NA)	146.5	161.6	182.3	204.3	221.7	245.7
801	Offices of physicians	38.8	66.8	72.6	83.8	94.4	101.7	111.9
802	Offices of dentists	12.6	20.4	21.7	23.8	25.7	27.6	29.7
804	Offices of other health practitioners	3.9	7.9	8.8	10.3	12.0	12.4	14.2
8041	Offices of chiropractors	(NA)	2.7	3.0	3.3	4.0	4.5	4.9
8042	Offices of optometrists	(NA)	2.8	3.0	3.5	3.8	3.9	4.4
805	Nursing and personal care facilities ⁴	(NA)	17.5	19.0	20.1	21.2	23.1	26.0
806	Hospitals ⁴	(NA)	15.7	18.1	19.7	21.7	22.7	25.2
8071	Medical laboratories	(NA)	3.9	4.5	5.5	7.0	8.4	10.0
808	Outpatient care facilities ⁴	(NA)	7.1	8.8	10.7	12.6	15.5	16.4
81	Legal services ⁴	25.7	52.8	58.9	67.0	76.0	83.1	91.1
835	Child day care services	(NA)	2.6	2.9	2.9	3.6	3.9	4.4
891	Engineering and architectural services	(NA)	49.3	51.3	57.1	62.9	73.6	79.6
893	Accounting, auditing, and bookkeeping	(NA)	21.2	22.9	26.6	29.7	33.3	34.2
4722	Arrangement of passenger transportation	(NA)	6.3	6.6	7.3	8.1	8.9	9.5
653	Real estate agents and managers	(NA)	31.3	34.9	38.1	42.1	44.1	44.0
824	Correspondence schools and vocational schools	(NA)	2.9	3.3	3.4	4.2	4.4	4.3

NA Not available. ¹ Standard Industrial Classification; see text, section 13. ² Includes other kinds of businesses, not shown separately. ³ N.e.c. means not elsewhere classified. ⁴ For data on tax-exempt organizations, see table 1311.

⁵ Excludes nonemployers.

Source: U.S. Bureau of the Census, *Current Business Reports*, series BS, 1990 Service Annual Survey.

**No. 1311. Selected Service Industries—Annual Revenues of Tax-Exempt Firms:
1985 to 1990**

[In billions of dollars. Estimated]

1972 SIC code ¹	KIND OF BUSINESS	1985	1986	1987	1988	1989	1990
7391,2,7	Selected business services ²	3.6	4.0	5.1	5.5	6.1	6.5
792,7997, 7999	Selected amusement services ³	5.2	5.5	6.4	6.9	7.4	8.1
805,6,8,9	Selected health services ⁴	115.5	126.1	143.3	160.9	181.3	208.9
805	Nursing and personal care facilities	6.8	7.4	8.2	9.3	10.4	11.8
806	Hospitals	99.1	108.0	123.5	138.3	155.3	178.8
808	Outpatient care facilities	7.0	7.8	8.3	9.4	11.4	13.2
81	Legal services	0.5	0.6	0.7	0.7	0.8	0.9
833	Job training and vocational rehabilitation services	3.1	3.4	3.7	4.1	4.4	4.7
835	Child day care services	1.8	1.9	2.2	2.4	2.7	2.8
836	Residential care	4.9	5.4	6.1	7.1	8.0	8.7
892	Noncommercial educational, scientific, and research organizations.	3.5	3.9	4.1	4.5	4.8	5.5

¹ Standard Industrial Classification; see text, section 13. ² Covers research and development laboratories (SIC 7391); management, consulting, and public relations services (SIC 7392); and commercial testing laboratories (SIC 7397). ³ Covers theatrical producers, bands, orchestras, and entertainers (SIC 792); membership sports and recreation clubs (SIC 7997); and amusement and recreation services, not elsewhere classified (SIC 7999). ⁴ Includes health and allied services, not elsewhere classified (SIC 809).

Source: U.S. Bureau of the Census, *Current Business Reports*, series BS, 1990 Service Annual Survey.

No. 1312. Computer Programming and Data Processing—Establishments, Employees, and Payroll: 1989

[Covers establishments with payroll. Excludes government employees, railroad employees, self-employed persons, etc.
For statement on methodology, see Appendix III.]

1987 SIC code ¹	KIND OF BUSINESS	Estab- lish- ments	Em- ploy- ees (1,000)	Annual payroll (mil. dol.)	STATE	COMPUTER PROGRAMMING, DATA PROCESSING (SIC 737)		
						Estab- lish- ments	Em- ploy- ees (1,000)	Annual payroll (mil. dol.)
737	Computer programming, data processing, total	37,752	721.8	25,033	CA	6,190	115.2	4,361
7371	Computer programming services	12,057	208.4	8,086	FL	1,680	30.6	917
7372	Prepackaged software	3,643	68.0	2,883	IL	1,906	33.9	1,159
7373	Computer integrated systems design	3,191	72.2	2,946	MD	1,172	35.0	1,300
7374	Computer processing and data preparation and processing services	6,776	222.7	5,818	NJ	1,442	39.2	1,632
7375	Information retrieval services	446	14.5	436	NY	2,226	37.8	1,414
7376	Computer facilities managements services	640	22.7	645	TX	3,104	43.7	1,550
7377	Computer rental and leasing	865	11.8	476	VA	2,653	49.9	1,800
7378	Computer maintenance and repair	3,261	51.2	1,818		1,436	47.3	1,713
7379	Computer related services, n.e.c. ²	5,348	46.4	1,769				

¹ Based on 1987 Standard Industrial Classification; see text, section 13. ² N.e.c. means not elsewhere classified.

Source: U.S. Bureau of the Census, *County Business Patterns 1989*.

No. 1313. National Nonprofit Associations—Number, by Type: 1980 to 1991

[Data compiled during last few months of year previous to year shown and the beginning months of year shown]

TYPE	1980	1985	1990	1991	TYPE	1980	1985	1990	1991
Total	14,726	19,121	22,289	22,389	Fraternal, foreign interest, nationality, ethnic	435	492	573	565
Trade, business, commercial	3,118	3,719	3,918	3,911	Religious	797	953	1,172	1,177
Agriculture	677	882	940	1,055	Veteran, hereditary, patriotic	208	281	462	542
Legal, governmental, public admin., military	529	658	792	794	Hobby, avocational	910	1,311	1,475	1,499
Scientific, engineering, tech	1,039	1,270	1,417	1,378	Athletic sports	504	737	840	849
Educational	2,376	2,822	1,291	1,301	Labor unions	235	252	253	253
Cultural	(1)	(1)	1,886	1,884	Chambers of Commerce ²	105	142	168	168
Social welfare	994	1,450	1,705	1,742	Greek and non-Greek letter societies	318	331	340	341
Health, medical	1,413	1,886	2,227	2,229	Fan clubs	(NA)	(NA)	581	519
Public affairs	1,068	1,935	2,249	2,182					

NA Not available. ¹ Data for cultural associations included with educational associations. ² National and binational.

Source: Gale Research Inc., Detroit, MI. Compiled from *Encyclopedia of Associations*, annual, (copyright).

Foreign Commerce and Aid

This section presents data on the flow of goods, services, and capital between the United States and other countries; changes in official reserve assets of the United States; international investments; foreign assistance programs; and import duties.

The Bureau of Economic Analysis publishes current figures on U.S. international transactions and the U.S. international investment position in its monthly *Survey of Current Business*. Statistics for the foreign aid programs are presented by the Agency for International Development (AID) in its annual *U.S. Overseas Loans and Grants and Assistance from International Organizations*; and by the Department of Agriculture in its *Foreign Agricultural Trade of the United States*.

The principal source of merchandise import and export data is the Bureau of the Census. Current data are presented monthly in *U.S. Merchandise Trade*, report series FT 900, and *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption*, report series FT 925. The *Bureau of the Census Catalog* and the *Guide to Foreign Trade Statistics* lists the Bureau's monthly and annual reports in this field. In addition, the International Trade Administration and the Bureau of Economic Analysis present summary as well as selected commodity and country data for U.S. foreign trade in the *Overseas Business Reports* and the *Survey of Current Business*, respectively. The merchandise trade data in the latter source include balance of payments adjustments to the Census data. The Treasury Department's *Monthly Treasury Statement of Receipts and Outlays of the United States Government* contains information on import duties.

International accounts.—The international transactions tables (Nos. 1314 to 1316) show, for given time periods, the transfer of goods, services, grants, and financial assets and liabilities between the United States and the rest of the world. The international investment position table (No. 1317) presents, for specific dates, the value of U.S. investments

In Brief

U.S. merchandise trade,	
net balance	66.2 bil. dol.
Exports, 1991	422 bil. dol.
General imports, 1991	488 bil. dol.
U.S. foreign assistance,	
1990	15.7 bil. dol.

abroad and of foreign investments in the United States. The movement of foreign and U.S. capital as presented in the balance of payments is not the only factor affecting the total value of foreign investments. Among the other factors are changes in the valuation of assets or liabilities, including changes in prices of securities, defaults, expropriations, and write-offs.

Direct investment abroad means the ownership or control, directly or indirectly, by one person of 10 percent or more of the voting securities of an incorporated business enterprise or an equivalent interest in an unincorporated business enterprise. Direct investment position is the value of U.S. parents' claims on the equity of, and receivables due from, foreign affiliates, less foreign affiliates' receivables due from their U.S. parents. Income consists of parents' shares in the earnings of their affiliates plus net interest received by parents on intercompany accounts, less withholding taxes on dividends and interest.

Foreign aid.—Foreign assistance is divided into three major categories—grants (military supplies and services and other grants), credits, and other assistance (through net accumulation of foreign currency claims from the sale of agricultural commodities). *Grants* are transfers for which no payment is expected (other than a limited percentage of the foreign currency "counterpart" funds generated by the grant), or which at most involve an obligation on the part of the receiver to extend aid to the United States or other countries to achieve a common objective. *Credits* are loan disbursements or transfers under other agreements which give rise to specific obligations to repay,

over a period of years, usually with interest. All known returns to the U.S. Government stemming from grants and credits (reverse grants, returns of grants, and payments of principal) are taken into account in net grants and net credits, but no allowance is made for interest or commissions. *Other assistance* represents the transfer of U.S. farm products in exchange for foreign currencies (plus, since enactment of Public Law 87-128, currency claims from principal and interest collected on credits extended under the farm products program), less the Government's disbursements of the currencies as grants, credits, or for purchases. The net acquisition of currencies represents net transfers of resources to foreign countries under the agricultural programs, in addition to those classified as grants or credits.

The basic instrument for extending military aid to friendly nations has been the Mutual Defense Assistance Program authorized by the Congress in 1949. Prior to 1952, economic and technical aid was authorized in the Foreign Assistance Act of 1948, the 1950 Act for International Development, and other legislation which set up programs for specific countries. In 1952, these economic, technical, and military aid programs were combined under the Mutual Security Act, which in turn was followed by the Foreign Assistance Act passed in 1961. Appropriations to provide military assistance were also made in the Department of Defense Appropriation Act (rather than the Foreign Assistance Appropriation Act) beginning in 1966 for certain countries in Southeast Asia and in other legislation concerning program for specific countries (such as Israel). Figures on activity under the Foreign Assistance Act as reported in the *Foreign Grants and Credits* series differ from data published by AID or its immediate predecessors, due largely to differences in reporting, timing, and treatment of particular items.

Exports.—The Bureau of the Census compiles export data primarily from Shipper's Export Declarations required to be filed with customs officials for shipments leaving the United States. They include U.S. exports under mutual security programs and exclude shipments to U.S. Armed Forces for their own use.

The value reported in the export statistics is generally equivalent to a free alongside ship (f.a.s.) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. This value, as defined, excludes the cost of loading merchandise aboard the exporting carrier and also excludes freight, insurance, and any other charges or transportation and other costs beyond the U.S. port of exportation. The country of destination is defined as the country of ultimate destination or country where the merchandise is to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. When ultimate destination is not known, the shipment is statistically credited to the last country to which the shipper knows the merchandise will be shipped in the same form as exported.

For certain "low-valued" shipments, the export statistics include estimates based upon selected samples of such shipments. The dollar value of the "low-valued" shipments have varied. For instance, effective January 1987 through September 1989, data are estimated for shipments valued under \$1,501; from October 1989 through December 1989, data are estimated for shipments valued under \$2,501 to all countries.

Effective January 1990, the United States is substituting Canadian import statistics for U.S. exports to Canada. As a result of the data exchange between the U.S. and Canada, the U.S. has adopted the Canadian import exemption level for its export statistics based on shipments to Canada.

Data are estimated for shipments valued under \$2,501 to all countries, except Canada, using factors based on the ratios of low-valued shipments to individual country totals. These shipments represent slightly less than 2.5 percent of the monthly value of U.S. exports to those countries. Data are estimated for shipments reported on Canadian import documents which total less than \$900 (Canadian). Such shipments represent 2 percent of the monthly value of U.S. exports to Canada.

From 1978-1988 exports were based on Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States. These statistics were retabulated and published using Schedule E, Standard International Trade Classification, Revision 2. Beginning in 1989, Schedule B classifications were based on the Harmonized System and made to coincide with the Standard International Trade Classification, Revision 3. This revision will affect the comparability of most export series beginning with the 1989 data.

Imports.—The Bureau of the Census compiles import data from various customs forms required to be filed with customs officials. From 1974-1981, data on import values were presented on three bases: The transaction values f.a.s. (free alongside ship) at the foreign port of export, the c.i.f. (cost, insurance, and freight), and the previously reported customs import value (as appraised by the U.S. Customs Service in accordance with legal requirements of the Tariff Act of 1930, as amended). This latter valuation, primarily used for collection of import duties, frequently did not reflect the actual transaction value. Beginning 1982, import data are based on customs values, i.e., the price paid by the buyer to the seller in accordance with the 1979 Trade Agreement Act amendments to the 1930 Tariff Act. For the c.i.f. imports, the new customs value was substituted for the arms-length transaction value used for 1981 and earlier years. The f.a.s. transaction values were discontinued as of January 1982. Country of origin is defined as country where the merchandise was grown, mined, or manufactured. If country of origin is unknown, country of shipment is reported.

Imports are classified either as "General imports" or "Imports for consumption." General imports are a combination of entries for immediate consumption, entries into customs bonded warehouses, and entries into U.S. Foreign Trade Zones, thus generally reflecting total arrivals of merchandise. Imports for consumption are a

combination of entries for immediate consumption, withdrawals from warehouses for consumption, and entries of merchandise into U.S. customs territory from U.S. Foreign Trade Zones, thus generally reflecting the total of the commodities entered into U.S. consumption channels.

Since July 1953, the import statistics include estimates, not classified by commodity, for certain low-valued shipments. For instance, from January 1985 through September 1989, import statistics include estimates for shipments valued under \$1,001. Effective October 1989, import statistics are fully compiled on shipments valued over \$1,250 or, under certain textile programs, for any article which must be reported on a formal entry. Value data for shipments valued under \$1,251 and not required to be reported on formal entries are estimated for individual countries using factors based on the ratios of low-valued shipments to individual country totals for past periods. The estimated low-valued shipments generally amount to slightly less than 4 percent of the import total.

From 1978-1988, imports were based on the Tariff Schedule of the United States Annotated. The statistics were retabulated and published using Schedule A, Standard International Trade Classification, Revision 2. Beginning in 1989, the statistics are based on the Harmonized Tariff Schedule of the United States, which coincides with the Standard International Trade Classification, Revision 3. This revision will affect the comparability of most import series beginning with the 1989 data.

Area coverage.—Except as noted, the geographic area covered by the export and import trade statistics is the United States Customs area (includes the 50 States, the District of Columbia and Puerto Rico), the U.S. Virgin Islands (effective January 1981), and U.S. Foreign Trade Zones (effective July 1982). Data for selected tables and total values for 1980, have been revised to reflect the U.S. Virgin Islands' trade with foreign countries, where possible.

U.S. International Transactions, by Type of Transaction: 1980 to 1991

In millions of dollars. Minus sign (-) indicates debits. See also *Historical Statistics, Colonial Times to 1970*, series U 1-25.]

TYPE OF TRANSACTION											1990	1989	1988	1987	1986	1985	1984	1983	1982	1980	1979	
Exports of goods and services¹											671,498	652,536	606,583	533,441	431,890	384,135	366,049	379,318	1984	1983	1982	1980
Merchandise, excl. military ^{2,3}											224,269	211,198	201,820	219,900	215,935	223,367	250,266	25,252	231,750	32,116	36,417	32,228
Foods, feeds, and beverages											59,146	64,148	61,140	64,923	61,451	89,950	97,403	35,123	89,950	32,97	32,116	32,228
Industrial supplies and materials											72,297	76,026	71,308	77,041	79,618	82,908	92,352	119,050	139,034	119,050	106,817	106,817
Capital goods, except automotive											17,422	17,359	18,620	21,281	25,331	28,131	33,869	34,941	34,941	17,422	17,359	18,620
Automotive vehicles and parts ⁴											16,182	15,040	14,982	14,381	16,275	20,275	26,569	36,427	43,842	16,182	15,040	14,982
Consumer goods (nonfood) ⁵											59,516	60,085	66,183	67,832	79,786	91,088	102,435	116,491	133,295	144,675	144,675	144,675
Services under U.S. military agency sales contracts											9,029	12,572	12,524	9,969	8,596	11,141	9,384	8,391	9,384	10,429	10,429	10,429
Travel											10,588	12,393	10,947	67,050	22,273	23,366	28,935	35,173	40,577	45,551	45,551	45,551
Passenger fares											2,159	3,174	3,610	6,014	4,323	5,457	6,866	8,771	10,374	12,251	13,836	13,836
Other transportation											11,618	12,317	12,590	13,908	14,674	16,989	19,022	20,708	22,407	23,114	23,114	23,114
Royalties and license fees											7,085	5,177	5,276	5,228	5,985	7,254	9,080	11,994	15,391	15,391	15,391	15,391
Other private services											6,276	13,308	14,472	15,296	16,501	22,153	23,140	24,804	29,239	32,773	34,326	34,326
U.S. Government misc.											398	576	686	714	878	595	526	672	695	679	679	679
Income on U.S. assets abroad											71,388	85,946	81,972	92,935	82,922	80,982	90,596	10,689	126,861	130,091	115,306	115,306
Direct investment											37,146	24,717	26,282	29,984	28,295	30,900	40,588	50,537	53,997	54,444	55,754	55,754
Other private receipts											6,680	50,512	50,318	57,725	48,322	45,669	53,530	69,014	65,702	56,011	56,011	56,011
U.S. Government receipts											2,562	4,118	4,832	5,227	5,459	6,413	5,311	6,703	5,640	9,945	7,541	7,541
Imports of goods, services and income											-333,774	-352,154	-374,065	-465,703	-472,968	-513,519	-577,418	-644,735	-687,407	-722,730	-704,842	-704,842
Merchandise, excl. military ^{2,3}											-297,750	-247,042	-266,900	-332,022	-338,035	-368,325	-409,766	-447,233	-477,369	-497,665	-490,103	-490,103
Foods, feeds, and beverages											18,548	17,462	16,871	21,373	21,346	24,893	24,929	25,077	26,550	26,587	26,587	26,587
Industrial supplies and materials											132,256	110,822	124,026	113,626	104,263	113,746	122,863	135,113	144,619	132,316	132,316	132,316
Capital goods, except automotive											31,420	38,407	43,193	60,474	61,434	72,139	85,129	112,203	112,453	116,389	121,316	121,316
Automotive vehicles and parts ⁴											28,058	34,040	43,218	56,861	65,077	85,174	88,942	87,380	87,314	84,849	84,849	84,849
Consumer goods (nonfood) ⁵											34,224	39,661	47,200	61,155	66,345	79,719	86,424	103,453	105,866	108,306	108,306	108,306
Services											-41,491	-47,415	-50,616	-63,739	-68,710	-75,081	-84,744	-92,096	-94,076	-106,919	-106,756	-106,756
Direct defense expenditures											-10,851	-12,460	-12,687	-13,149	-14,803	-13,503	-12,116	-14,803	-14,595	-17,709	-17,709	-17,709
Travel											-10,397	-12,394	-13,149	-13,205	-12,905	-25,155	-26,464	-30,022	-33,988	-38,671	-38,671	-38,671
Passenger fares											-3,607	-4,772	-6,003	-6,578	-6,578	-7,411	-7,411	-7,332	-8,387	-8,963	-9,269	-9,269
Other transportation											-11,790	-11,710	-12,222	-14,243	-15,643	-16,774	-17,794	-19,452	-20,699	-23,463	-23,463	-23,463
Royalties and license fees											-724	-617	-723	-723	-723	-1,062	-1,416	-2,225	-2,155	-2,644	-3,409	-3,409
Other private services											-4,264	-5,108	-5,108	-6,703	-6,703	-11,040	-12,312	-16,144	-13,910	-15,030	-15,030	-15,030
U.S. Government miscellaneous services											-1,214	-1,460	-1,460	-1,460	-1,460	-1,886	-1,886	-1,980	-2,045	-2,240	-2,474	-2,474
Income on foreign assets in U.S.											-42,532	-57,997	-54,549	-69,542	-66,115	-70,013	-82,908	-105,317	-125,963	-18,146	-105,943	-105,943
Direct investment											-8,635	-8,635	-5,155	-5,598	-9,295	-6,079	-5,379	-13,527	-11,513	-1,782	-17,486	-17,486
Other private payments											-21,214	-21,214	-34,659	-28,958	-39,158	-37,064	-40,563	-61,526	-78,594	-76,494	-66,743	-66,743
U.S. Government payments											-12,684	-19,282	-18,993	-21,155	-22,972	-24,071	-25,291	-30,164	-35,866	-37,870	-36,839	-36,839
Unilateral transfers (excl. military grants, net)											-8,348	-9,775	-9,956	-12,621	-15,473	-16,009	-14,674	-14,491	-15,491	-22,329	19,728	19,728
U.S. Government grants											-5,486	-6,987	-6,469	-8,996	-11,268	-11,987	-10,506	-10,227	-12,517	-25,111	-25,111	-25,111
Private remittances and other transfers											-1,818	-1,438	-2,120	-2,120	-2,120	-2,120	-2,120	-2,120	-2,120	-3,187	-3,187	-3,187
U.S. Government payments											-1,044	-1,438	-1,438	-1,438	-1,438	-1,438	-1,438	-1,438	-1,438	-1,856	-1,856	-1,856

TYPE OF TRANSACTION	1990	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
U.S. assets abroad, net (increase/capital outflow (-))	-86,118	-124,480	-56,100	-31,070	-27,721	-92,030	-62,937	-86,057	-128,610	-57,706	-67,747
U.S. official reserve assets, net	-8,155	-4,965	-1,196	-3,131	-3,658	312	9,149	-3,912	-25,293	-2,158	5,763
Special drawing rights	-16	-1,371	-66	-897	-595	-246	-5,509	-1,127	-5,935	-192	-177
Reserve position in the International Monetary Fund	-1,667	-2,552	-4,434	-1,156	-908	1,501	2,070	1,025	471	73	-367
Foreign currencies	-6,472	-1,041	3,304	-1,156	-3,869	-942	7,588	-5,084	-25,259	-2,687	6,307
U.S. Govt. assets, other than official reserve assets, net	-5,162	-6,131	-5,006	-5,489	-2,821	-2,022	1,006	2,986	1,320	2,976	3,572
U.S. credits and other long-term assets	-9,860	-10,063	-9,967	-9,539	-7,657	-9,084	-6,506	-7,683	-5,563	-7,319	-11,916
Repayments on U.S. credits and other long-term assets	4,456	4,292	5,012	4,490	4,719	6,089	7,625	10,373	6,726	10,327	16,466
U.S. foreign currency holdings and U.S. short-term assets, net	242	-380	-51	-379	-117	973	-113	276	157	-32	-973
U.S. private assets, net	-72,802	-113,384	-49,898	-22,451	-21,043	-90,321	-85,111	-104,111	-58,524	-77,082	-77,082
Direct investments abroad	-19,222	9,987	-6,695	-11,587	-13,162	-18,679	-31,045	-17,879	-33,388	-29,487	-29,487
Foreign securities	-3,568	-7,983	-6,762	-4,756	-7,481	-4,271	-5,251	-7,846	-22,575	-28,476	-46,215
U.S. claims on unaffiliated foreigners reported by U.S. nonbanking concerns	-3,174	6,926	-6,513	5,019	923	-7,398	5,324	-3,084	2,581	-1,944	(NA)
U.S. claims reported by U.S. banks, n.i.e. ^g	-46,838	-111,070	-28,928	-11,127	-1,323	-69,975	-42,119	-56,322	-51,255	5,393	3,428
Foreign assets in the U.S., net (increase/capital inflow (+))	58,112	93,746	84,869	102,621	130,012	221,599	229,828	221,534	216,549	86,303	79,503
Foreign official assets in the U.S., net	15,497	5,953	5,845	3,140	-1,083	35,568	45,343	39,687	8,624	32,425	20,585
U.S. Government securities	11,895	6,965	6,496	4,703	-1,139	33,150	44,802	43,050	15,323	29,310	18,623
U.S. Treasury securities	9,709	5,779	6,972	4,580	-638	34,364	43,238	41,741	1,149	28,643	18,623
Other U.S. Government liabilities	2,187	-694	-476	1,3	-301	-1,214	-1,564	1,309	1,383	667	926
U.S. liabilities reported by U.S. banks, n.i.e. ^g	615	605	602	739	860	2,135	-2,370	1,703	1,603	-1,356	-1,356
Other foreign official assets	-1,159	-1,747	545	555	645	1,187	-3,918	-319	4,976	2,998	-1,239
Other foreign assets in the U.S., net	3,154	-1,798	-2,855	-1,984	-1,469	-1,007	-2,506	1,835	-1,836	53,875	58,918
42,615	90,154	79,023	99,481	131,096	186,011	184,485	181,877	207,925	37,213	22,187	22,187
Direct investments in U.S.	19,618	13,792	25,359	19,029	34,091	58,119	59,424	50,751	1,131	1,131	16,361
U.S. Treasury securities	9,265	9,732	6,689	23,001	20,433	3,809	-7,643	29,618	38,920	1,781	35,417
U.S. securities other than U.S. Treasury securities	5,457	6,085	8,164	12,568	50,962	70,969	42,120	26,323	-	-	-
U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking concerns	6,852	-2,283	-1118	4,704	-366	-2,641	2,863	5,626	5,454	3,779	(NA)
U.S. liabilities reported by U.S. banks, n.i.e. ^g	10,743	65,633	50,342	33,849	41,045	79,783	69,026	70,235	63,382	9,975	-15,046
Allocations of special drawing rights	1,152	-	-	-	-	-	-	-	-	-	-
Statistical discrepancy	25,736	36,612	11,374	27,456	20,041	15,824	-6,680	-9,240	18,366	63,556	-3,138
Balance on merchandise trade	-25,481	-36,444	-67,080	-112,148	-145,058	-159,500	-126,986	-115,917	-108,115	-73,586	-
Balance on services	6,093	12,101	9,469	2,744	-877	4,706	6,344	10,340	22,415	26,376	35,879
Balance on investment income	28,859	28,250	27,423	23,394	16,166	10,969	7,629	5,253	11,945	9,363	-
Balance on goods, services, and income	9,467	3,997	-30,188	-86,885	106,859	-129,384	-145,527	-111,234	-90,814	-68,794	-28,344
Unilateral transfers, net	-8,349	-9,775	-9,195	-12,621	15,473	-16,009	-14,674	-14,943	-15,491	-22,329	19,728
Balance on current account	1,119	-5,868	-40,143	-99,066	-122,332	-145,393	-160,201	-126,236	-106,305	-92,123	-8,616

¹ Represents zero. ² NA. Not available. ³ Excludes transfers of goods under U.S. military grant programs. ⁴ Excludes exports of goods under U.S. military agency sales contracts identified in Bureau of the Census export documents, excludes imports of goods under direct defense expenditures identified in Census import documents, and reflects various other adjustments (for valuation, coverage, and timing) of Census statistics to a balance of payments basis. ⁵ Includes other end-use items, not shown separately. ⁶ Break in series due to inclusion of new data. See Technical Note in Survey of Current Business, June 1973. ⁷ Includes sales of foreign obligations to foreigners. ⁸ Not included elsewhere. ⁹ Includes foreign currency notes sold to private residents abroad.

Source: U.S. Bureau of Economic Analysis, Survey of Current Business, March 1992.

No. 1315. U.S. International Transactions—Summary: 1960 to 1991

[In billions of dollars. Reserve assets are for end of period. Minus sign (-) indicates debits, see headnote, table 1314]

YEAR	Merchandise trade balance ¹	Net investment income	Net military transactions	Net travel and transportation receipts	Other services, net	Balance on goods, services, and income.	Unilateral transfers ¹	Balance on current account	Net foreign assets in U.S.	Net U.S. assets abroad	Net U.S. official reserve assets
1960	4.9	3.4	-1.1	-1.0	0.6	6.9	-4.1	2.8	2.3	-4.1	19.4
1965	5.0	5.3	-0.5	-1.3	1.5	10.0	-4.6	5.4	0.7	-5.7	15.5
1966	3.8	5.0	-1.0	-1.3	1.5	8.0	-5.0	3.0	3.7	-7.3	14.9
1967	3.8	5.3	-1.2	-1.8	1.7	7.9	-5.3	2.6	7.4	-9.8	14.8
1968	0.6	6.0	-0.6	-1.5	1.8	6.2	-5.6	0.6	9.9	-11.0	15.7
1969	0.6	6.0	-0.7	-1.8	2.0	6.1	-5.7	0.4	12.7	-11.6	17.0
1970	2.6	6.2	-0.6	-2.0	2.3	8.5	-6.2	2.3	6.4	-9.3	14.5
1971	-2.3	7.3	0.7	-2.3	2.6	6.0	-7.4	-1.4	23.0	-12.5	12.2
1972	-6.4	8.2	1.1	-3.1	3.0	2.7	-8.5	-5.8	21.5	-14.5	13.2
1973	0.9	12.2	0.7	-3.2	3.4	14.1	-6.9	7.1	18.4	-22.9	14.4
1974	-5.5	15.5	0.2	-3.2	4.2	11.2	-9.2	2.0	34.2	-34.7	15.9
1975	8.9	12.8	1.5	-2.8	4.9	25.2	-7.1	18.1	15.7	-39.7	16.2
1976	-9.5	16.0	0.9	-2.6	5.0	9.9	-5.7	4.2	36.5	-51.3	18.7
1977	-31.1	18.0	1.7	-3.6	5.7	9.3	-5.2	-14.5	51.3	-34.8	19.3
1978	-33.9	20.1	0.9	-3.6	6.9	9.6	-5.8	-15.4	64.0	-61.1	18.7
1979	-27.5	30.1	-1.3	-2.9	7.3	5.6	-6.6	-1.0	38.8	-64.3	19.0
1980	-25.5	28.9	-1.8	-1.0	8.9	9.5	-8.3	1.1	58.1	-86.1	26.8
1981	-28.0	31.3	-0.8	0.1	12.6	15.2	-8.3	6.9	83.0	-111.0	30.1
1982	-36.4	28.3	0.1	-1.0	13.0	3.9	-9.8	-5.9	93.7	-124.5	34.0
1983	-67.1	27.4	-0.2	-4.2	13.9	-30.2	-10.0	-40.1	84.9	-56.1	33.7
1984	-112.5	23.4	-2.1	-9.2	14.0	-86.4	-12.6	-99.0	102.6	-31.1	34.9
1985	-122.1	16.2	-4.1	-10.8	14.0	-106.9	-15.5	-122.3	130.0	-27.7	43.2
1986	-145.1	11.0	-4.9	-8.9	18.6	-129.4	-16.0	-145.4	221.6	-92.0	48.5
1987	-159.5	7.6	-3.7	-8.0	18.0	-145.5	-14.7	-160.2	229.8	-62.9	45.8
1988	-127.0	5.4	-5.7	-3.8	21.0	-111.3	-14.9	-126.2	221.5	-86.1	47.8
1989	-115.9	2.7	-6.2	2.6	26.0	-90.8	-15.5	-106.3	216.5	-128.6	74.6
1990	-108.1	11.9	-7.2	4.1	29.5	-69.8	-22.3	-92.1	86.3	-57.7	83.3
1991, prel.	-73.6	9.4	-5.3	10.3	30.8	-28.3	19.7	-8.6	79.5	-67.7	77.7

¹ Excludes military.Source: U.S. Council of Economic Advisers, *Economic Indicators*, monthly; and *Economic Report of the President*, annual.

No. 1316. U.S. Balances on International Transactions, by Area and Selected Country: 1989 to 1991

[In millions of dollars. Minus sign (-) indicates debits]

AREA OR COUNTRY	1989, BALANCE ON—			1990, BALANCE ON—			1991, BALANCE ON—		
	Merchandise trade ¹	Goods, services, and income	Current account	Merchandise trade ¹	Goods, services, and income	Current account	Merchandise trade ¹	Goods, services, and income	Current account
All areas	-115,917	-90,814	-106,305	-108,115	-69,794	-92,123	-73,586	-28,344	-8,616
Western Europe	-3,990	-14,258	-14,071	2,121	-2,214	1,797	14,724	10,024	14,865
European Economic Community ²	-994	-10,780	-10,055	4,950	-1,024	206	15,394	9,988	16,227
United Kingdom	2,381	-9,821	-9,213	2,099	-10,557	-9,824	3,186	-10,504	-9,780
Belgium-Luxembourg	3,910	5,456	5,423	5,796	7,774	7,735	6,553	(NA)	(NA)
France	-1,327	1,476	1,325	620	4,010	3,901	2,137	(NA)	(NA)
West Germany	8,280	-14,353	-13,410	-9,664	-14,644	-13,276	(NA)	(NA)	(NA)
Italy	4,806	-4,182	-4,455	-4,849	4,899	4,873	-3,231	(NA)	(NA)
Netherlands	6,313	7,321	7,296	7,841	12,180	12,148	8,420	(NA)	(NA)
Other Western Europe	-2,996	-3,498	-4,016	-2,829	-1,190	-2,003	(NA)	(NA)	(NA)
Eastern Europe	3,480	4,299	3,876	2,074	2,370	1,618	3,071	3,258	1,114
Canada	-9,277	5,266	4,912	-9,454	4,094	3,804	-7,976	7,638	7,283
Latin America, other Western Hemisphere	-8,660	-6,681	-9,874	-10,048	-9,547	-12,943	296	3,442	-2,127
Mexico	-2,450	-2,081	-2,635	-2,392	-2,887	-3,473	1,611	(NA)	(NA)
Venezuela	-3,795	-2,992	-3,019	-6,424	-5,952	-5,988	-3,597	(NA)	(NA)
Australia	4,246	7,732	7,674	3,893	7,337	7,272	4,269	7,087	7,011
Japan ³	-49,669	-42,711	-42,844	-41,690	-31,748	-31,467	-44,107	-32,761	-23,924
Other Asia and Africa	-52,220	-47,635	-57,928	-55,589	-44,277	-61,352	-44,253	-31,092	-15,218
South Africa	122	751	708	34	496	448	(NA)	(NA)	(NA)
Int'l. and unallocated	173	3,174	1,949	558	4,191	2,741	390	4,059	2,380

NA Not available. ¹ Adjusted to balance of payments basis, excludes exports under U.S. military sales contracts and imports under direct defense expenditures. ² Includes Denmark, Greece, Ireland, Spain, Portugal, European Atomic Energy Community, European Coal and Steel Community, and European Investment Bank, not shown separately. ³ Includes Ryukyu Islands.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, March 1992.

No. 1317. International Investment Position: 1980 to 1990

[In billions of dollars. Estimates for end of year; subject to considerable error due to nature of basic data. See *Historical Statistics, Colonial Times to 1970*, series U 26-39, for similar data.]

TYPE OF INVESTMENT	1980	1984	1985	1986	1987	1988	1989	1990
U.S. net international investment position:								
Current cost	379,623	163,972	64,306	-74,122	-134,960	-305,976	-439,656	-412,163
Market value	(NA) 111,034		64,502	14,588	-42,237	150,562	-267,711	-360,598
U.S. assets abroad:								
Current cost	921,527	1,104,622	1,173,850	1,319,094	1,463,400	1,533,692	1,672,532	1,764,055
Market value	(NA) 1,022,251		1,174,772	1,424,416	1,555,825	1,707,549	1,944,218	1,880,096
U.S. official reserve assets	171,412	105,040	117,930	139,875	162,370	144,179	168,714	174,664
Gold	155,816	81,202	85,834	102,428	127,648	107,434	105,164	102,406
Special drawing rights	2,610	5,641	7,293	8,395	10,283	9,637	9,951	10,989
Reserve position in IMF	2,852	11,541	11,947	11,730	11,349	9,745	9,048	8,076
Foreign currencies	10,134	6,656	12,856	17,322	13,090	17,363	44,551	52,193
U.S. Government assets, other	63,865	84,971	87,752	89,637	88,596	85,565	84,207	81,209
U.S. loans and other long-term assets	62,023	82,883	85,814	88,710	87,580	84,858	83,675	80,661
U.S. foreign currency holdings and short-term assets	1,842	2,088	1,938	927	1,016	707	532	548
U.S. private assets:								
Current cost	686,250	914,611	968,168	1,089,582	1,212,434	1,303,948	1,419,611	1,508,182
Market value	(NA) 832,240		969,090	1,194,904	1,304,859	1,477,805	1,691,297	1,624,223
Direct investments abroad								
Current cost	385,059	350,007	379,556	414,091	485,178	504,980	536,057	598,062
Market value	(NA) 267,636		380,478	519,413	577,603	678,837	807,743	714,103
Foreign securities	62,653	88,917	112,226	131,736	146,714	156,775	190,259	222,317
U.S. claims on unaffiliated foreigners	34,672	30,056	29,023	36,417	31,085	34,157	31,574	33,518
U.S. claims reported by U.S. banks ²	203,866	445,631	447,363	507,338	549,457	608,096	661,721	654,285
Foreign assets in the U.S.								
Current cost	541,904	940,650	1,109,544	1,393,216	1,598,360	1,839,668	2,112,188	2,178,218
Market value	(NA) 911,217		1,110,270	1,409,828	1,598,062	1,858,111	2,211,929	2,240,694
Foreign official assets								
in the U.S.	176,062	199,690	202,544	241,199	283,024	321,891	337,278	369,607
U.S. Government securities	118,189	144,665	145,063	178,915	220,548	260,934	265,708	296,036
Other U.S. Government liabilities	13,367	14,971	15,865	18,005	15,635	15,067	15,348	17,052
U.S. liabilities reported by U.S. banks ²	30,381	26,090	26,734	27,920	31,838	31,520	36,496	39,494
Other foreign official assets	14,125	13,964	14,882	16,359	15,003	14,370	19,726	17,025
Other foreign assets in the U.S.:								
Current cost	365,842	740,960	907,000	1,152,017	1,315,336	1,517,777	1,774,910	1,806,611
Market value	(NA) 711,527		907,726	1,168,629	1,315,038	1,536,220	1,874,651	1,871,087
Direct investments:								
Current cost	124,120	207,159	227,223	266,541	316,012	372,569	433,741	465,916
Market value	(NA) 177,726		227,949	283,153	315,714	391,012	533,482	530,392
U.S. securities other than U.S. Treasury securities	74,114	128,477	207,868	310,883	346,187	395,584	489,127	475,120
U.S. liabilities to unaffiliated foreigners	30,426	31,024	29,458	26,902	29,818	35,003	40,437	44,134
U.S. liabilities reported by U.S. banks ²	121,069	312,179	354,497	451,613	540,731	613,744	677,117	687,041
U.S. Treasury securities	16,113	62,121	87,954	96,078	82,588	100,877	134,488	134,391

NA Not available. ¹ Reported by U.S. nonbanking concerns. ² Not included elsewhere.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1991.

No. 1318. U.S. Reserve Assets: 1980 to 1991

[In billions of dollars. As of end of year, except as indicated]

TYPE	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total ¹	26.8	30.1	34.0	33.7	34.9	43.2	48.5	45.8	47.8	74.6	83.3	77.7
Gold stock ¹	11.2	11.2	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
Special drawing rights	2.6	4.1	5.3	5.0	5.6	7.3	8.4	10.3	9.6	10.0	11.0	11.2
Foreign currencies	10.1	9.8	10.2	6.3	6.7	12.9	17.3	13.1	17.4	44.6	52.2	45.9
Reserve position in IMF ²	2.9	5.1	7.3	11.3	11.5	11.9	11.7	11.3	9.7	9.0	9.1	9.5

¹ Includes gold in Exchange Stabilization Fund; excludes gold held under earmark at Federal Reserve banks for foreign and interinternational accounts. Beginning 1975, gold assets were valued at \$42.22 pursuant to the amending of Section 2 of the Par Value Modification Act, PL-93-110, approved September 21, 1973. ² International Monetary Fund.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; and Department of the Treasury, *Treasury Bulletin*, monthly.

No. 1319. Foreign Direct Investment Position in the U.S.—Value, by Area and Industry: 1980 to 1990

[In millions of dollars. Book value at year end. 1970 covers U.S. firms, including real estate investments in which foreign interest or ownership was 25 percent or more; thereafter, ownership of 10 percent or more. Minus sign (-) indicates a negative position. See also *Historical Statistics, Colonial Times to 1970*, series U 47-74.]

AREA AND INDUSTRY	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990, prel.
All areas ¹	83,046	124,677	137,061	164,583	184,615	220,414	263,394	314,754	373,763	403,735
Petroleum	12,200	17,660	18,209	25,400	28,270	29,094	37,815	36,006	37,201	38,004
Manufacturing	32,993	44,065	47,665	51,802	59,584	71,963	93,865	122,582	151,820	159,998
Finance and insurance	12,027	17,933	10,934	24,881	27,429	34,978	39,455	44,010	58,215	58,437
Trade, wholesale and retail	15,210	23,604	26,513	31,219	35,873	42,920	45,399	53,590	55,810	61,986
Canada	12,162	11,708	11,434	15,286	17,131	20,318	24,684	26,566	28,686	27,733
Petroleum	1,817	1,550	1,391	1,544	1,589	1,432	1,088	1,181	1,233	1,417
Manufacturing	5,227	3,500	3,313	4,115	4,607	6,108	8,085	9,730	9,934	9,327
Finance and insurance	1,612	1,801	1,061	3,245	4,008	4,283	5,797	5,769	7,227	7,325
Europe	54,688	83,193	92,936	108,211	121,413	144,181	181,006	208,942	242,961	256,496
Petroleum	10,137	15,071	16,326	23,142	25,636	26,139	35,700	33,499	32,476	31,197
Manufacturing	21,953	33,032	36,866	39,083	45,841	56,016	74,300	95,641	120,132	125,568
Finance and insurance	8,673	12,601	8,450	15,945	17,022	21,787	26,336	27,121	31,609	30,329
United Kingdom	14,105	28,447	32,152	38,387	43,555	55,935	75,519	95,898	105,511	108,055
Petroleum	-257	5,444	5,955	10,991	12,155	11,758	17,950	19,522	16,545	15,310
Manufacturing	6,159	8,504	9,221	9,179	11,687	16,500	30,372	41,708	51,798	52,955
Finance and insurance	3,350	5,661	3,777	5,485	6,483	10,163	9,801	11,256	11,859	13,139
Netherlands	19,140	26,191	29,182	33,728	37,056	40,717	46,636	48,128	56,316	64,333
Petroleum	9,265	8,098	8,646	9,981	11,481	(D)	(D)	9,045	9,889	10,527
Manufacturing	4,777	9,901	11,222	12,497	13,351	13,293	15,615	17,843	23,709	24,446
Switzerland	5,070	6,378	7,464	8,146	10,656	12,058	13,772	14,372	18,772	17,512
Manufacturing	3,116	3,584	4,155	4,774	6,881	7,520	6,921	7,613	10,412	9,113
Finance and insurance	1,033	1,473	1,830	(D)	5,425	2,517	3,211	3,506	4,671	4,947
West Germany	7,596	9,850	10,845	12,330	14,816	17,250	21,905	25,250	29,015	27,770
Manufacturing	3,875	4,239	4,487	4,389	6,015	7,426	10,298	13,980	15,722	15,216
Finance and insurance	1,248	1,426	1,416	1,902	(D)	1,962	3,442	2,683	3,396	2,767
Other Europe ²	8,777	12,327	13,293	15,620	15,417	18,221	23,174	25,494	33,347	38,826
Petroleum	991	1,380	1,679	2,080	(D)	(D)	(D)	4,580	4,920	4,760
Manufacturing	4,026	6,804	7,771	7,704	7,907	11,277	11,094	14,497	18,491	23,838
Finance insurance	1,193	429	-908	(D)	(D)	(D)	2,189	406	2,574	1,119
Japan	4,723	9,677	11,336	16,044	19,313	26,824	34,421	51,126	67,319	83,498
Other areas	11,472	20,099	21,356	25,043	26,758	29,091	23,283	28,120	34,797	36,008

D Withheld to avoid disclosure of data of individual companies. ¹ Area totals include industries not shown separately.
² Direct investments in 1990 (in millions of dollars); Belgium and Luxembourg, 6,081; France, 19,550; Italy, 1,552; and Sweden, 5,450.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1991, and earlier issues.

No. 1320. U.S. Affiliates of Foreign Companies—Assets, Sales, Employment, Land, Exports, and Imports: 1989

[A U.S. affiliate is a U.S. business enterprise in which one foreign owner (individual, branch, partnership, association, trust, corporation, or government) has a direct or indirect voting interest of 10 percent or more. Universe estimates based on a sample survey of nonbank affiliates with assets, sales, or net income of \$10 million or more]

INDUSTRY	Total assets (mil. dol.)	Sales ¹ (mil. dol.)	Employment (1,000)	Employee compensation (mil. dol.)	GROSS BOOK VALUE (mil. dol.)		Land owned (1,000 acres)	Merchandise exports ⁴ (mil. dol.)	Merchandise imports ⁴ (mil. dol.)
					Plant and equipment ³	Land			
Total	1,402,174	1,040,887	4,440.1	140,592	437,285	44,749	18,702	84,263	169,745
Petroleum	91,381	91,651	135.3	6,287	87,464	3,556	1,322	1,962	14,131
Manufacturing	367,452	347,023	2,123.4	74,674	177,130	7,430	6,187	31,281	39,227
Chemicals and allied products	105,964	93,969	442.5	19,279	68,321	1,536	834	9,377	7,688
Wholesale trade ⁵	131,226	342,922	390.8	14,132	26,920	2,078	725	47,645	113,059
Motor vehicles and auto parts and supplies	37,842	86,746	81.7	3,130	9,968	555	25	4,558	45,178
Farm-product raw materials	8,400	43,040	17.3	590	1,636	214	34	17,292	3,398
Retail trade	48,474	71,816	818.0	12,009	20,609	2,100	18	1,533	2,686
Finance, except banking	380,743	42,026	93.9	7,918	4,705	387	19	6	(Z)
Insurance	171,055	55,393	111.6	4,157	4,088	683	13	-	-
Real estate	89,968	14,745	37.8	1,025	52,346	18,655	2,908	3	2
Services	57,970	28,666	404.9	9,505	25,315	2,707	329	279	176
Other	63,905	46,643	324.2	10,885	38,709	7,153	7,181	1,555	465

¹ Represents zero. Z Less than \$500,000. ² Average number of full-time and part-time employees. ³ Includes other property, value of mineral rights owned and capitalized value of mineral rights leased. ⁴ F.a.s. values at port of exportation. ⁵ Includes industries not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, July 1991, and *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies*, preliminary 1989 estimates.

No. 1321. Foreign Direct Investment in the United States—Gross Book Value of Property, Plant, and Equipment and Employment of U.S. Affiliates of Foreign Companies, by State: 1981 and 1989

[A U.S. affiliate is a U.S. business enterprise in which one foreign owner (individual, branch, partnership, association, trust corporation, or government) has a direct or indirect voting interest of 10 percent or more. Universe estimates based on a sample survey of nonbank affiliates with assets, sales, or net income of \$10 million or more]

DIVISION, STATE, AND OTHER AREA	GROSS BOOK VALUE OF PROPERTY, PLANT, AND EQUIPMENT (mil. dol.)		TOTAL EMPLOYMENT			MANUFACTURING EMPLOYMENT, 1989	
	1981	1989	1981	1989		Total (1,000)	Percent of all businesses
				Total (1,000)	Percent of all businesses		
Total	187,956	462,035	2,416.6	4,440.1	(X)	1,834.4	(X)
United States	178,003	461,313	2,402.3	4,406.0	4.8	1,816.2	9.3
New England	5,686	16,982	143.9	291.1	5.1	115.4	8.9
Maine	1,637	2,110	17.7	27.1	6.0	8.4	7.9
New Hampshire	409	1,141	13.9	25.6	5.5	11.6	10.1
Vermont	315	502	6.0	8.4	3.8	3.0	6.1
Massachusetts	1,712	7,580	55.6	129.0	4.7	49.0	8.7
Rhode Island	359	931	9.9	13.3	3.2	7.2	6.6
Connecticut	1,254	4,718	40.8	87.7	6.0	36.2	10.0
Middle Atlantic	20,216	62,988	480.2	794.7	5.5	292.8	10.1
New York	7,892	31,993	210.3	370.9	5.5	96.5	8.1
New Jersey	6,552	16,011	134.9	222.4	7.0	89.2	13.8
Pennsylvania	5,772	14,984	135.0	201.4	4.5	107.1	10.2
East North Central	19,215	58,600	388.5	759.8	4.7	391.9	9.1
Ohio	5,178	17,315	99.9	207.6	5.0	114.9	10.2
Indiana	1,883	8,106	47.0	96.5	4.5	63.9	9.9
Illinois	5,646	19,610	113.6	238.8	5.3	103.5	10.5
Michigan	4,188	10,220	65.9	140.1	4.2	67.4	7.0
Wisconsin	2,320	4,349	62.2	77.0	4.0	42.2	7.5
West North Central	8,400	25,784	112.2	233.0	3.5	98.5	7.0
Minnesota	2,902	11,410	33.0	81.2	4.5	30.2	7.5
Iowa	1,032	2,356	21.6	30.6	3.0	18.8	8.0
Missouri	1,894	5,024	32.6	71.6	3.6	30.9	7.0
North Dakota	1,155	1,121	3.5	3.1	1.5	1.1	6.7
South Dakota	299	456	1.3	3.0	1.4	1.6	5.1
Nebraska	241	700	5.6	13.5	2.3	6.2	6.3
Kansas	877	4,717	14.6	30.0	3.4	9.7	5.2
South Atlantic	33,271	77,901	476.0	875.6	5.4	361.8	11.3
Delaware	1,869	5,378	36.0	41.5	14.4	11.8	16.0
Maryland	2,103	4,812	45.1	68.6	3.8	25.1	12.0
District of Columbia	547	2,433	3.2	8.8	2.2	0.3	2.2
Virginia	3,046	9,137	49.8	106.1	4.6	44.9	10.4
West Virginia	3,992	5,511	35.4	29.8	6.2	17.7	20.1
North Carolina	5,543	13,869	89.0	174.5	6.7	101.6	11.7
South Carolina	5,318	8,572	65.1	100.1	8.1	51.9	13.3
Georgia	4,558	13,873	78.5	159.7	6.5	67.6	11.9
Florida	6,295	14,316	73.9	186.5	4.1	40.7	7.8
East South Central	9,802	23,982	121.7	246.4	4.9	142.4	9.9
Kentucky	1,848	6,750	26.0	55.5	4.7	36.2	12.7
Tennessee	3,747	8,771	57.4	112.3	6.1	66.6	12.7
Alabama	2,776	5,855	27.0	55.8	4.3	26.2	6.7
Mississippi	1,431	2,606	11.3	22.8	3.1	13.4	5.5
West South Central	34,651	71,828	268.5	401.6	4.7	140.9	9.1
Arkansas	636	2,263	17.5	32.0	4.2	17.6	7.6
Louisiana	7,872	15,661	47.0	64.6	5.2	19.9	11.3
Oklahoma	2,760	5,726	25.0	41.2	4.5	13.3	8.1
Texas	23,383	48,176	179.0	263.8	4.7	90.1	9.2
Mountain	12,353	27,087	97.9	161.0	3.4	41.2	6.4
Montana	1,235	1,917	3.0	4.1	1.8	1.4	6.4
Idaho	312	618	3.8	8.2	2.7	4.0	6.6
Wyoming	2,144	1,958	4.2	4.1	2.8	0.8	8.9
Colorado	2,369	5,716	24.7	40.0	3.2	10.6	5.5
New Mexico	997	3,881	7.9	15.6	3.7	2.7	6.3
Arizona	2,949	5,859	30.6	54.2	4.4	13.1	7.0
Utah	1,791	3,391	16.8	16.1	2.9	7.2	7.0
Nevada	556	3,747	6.9	18.7	3.6	1.4	5.6
Pacific	34,409	95,162	313.3	642.8	4.4	231.3	8.2
Washington	2,430	5,914	26.0	67.2	3.9	19.7	5.4
Oregon	845	2,299	13.1	28.5	2.8	10.8	4.9
California	20,404	61,142	248.4	496.4	4.5	196.3	9.0
Alaska	(D)	18,919	8.8	8.0	5.0	2.8	17.5
Hawaii	(D)	6,888	17.0	42.7	10.1	1.7	8.0
Puerto Rico	413	997	9.5	19.6	(X)	12.3	(X)
Other territories and offshore	7,496	17,579	3.1	8.8	(X)	2.1	(X)
Foreign	2,044	2,146	1.6	5.7	(X)	3.8	(X)

X Not applicable. D Withheld to avoid disclosure of data of individual companies. X Not applicable.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, July 1991, and *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies*, preliminary 1989 estimates.

No. 1322. U.S. Businesses Acquired or Established by Foreign Direct Investors, by Industry of U.S. Business Enterprise: 1989 and 1990

[Foreign direct investment is the ownership or control, directly or indirectly, by one foreign individual branch, partnership, association, trust, corporation, or government of 10 percent or more of the voting securities of a U.S. business enterprise or an equivalent interest in an unincorporated one. Data represent number and full cost of acquisitions of existing U.S. business enterprises, including business segments or operating units of existing U.S. business enterprises and establishments of new enterprises. Investments may be made by the foreign direct investor itself, or indirectly by an existing U.S. affiliate of the foreign direct investor. Covers investments in U.S. business enterprises with assets of over \$1 million, or ownership of 200 acres of U.S. land]

INDUSTRY	1989						1990					
	Investments			Investors			Investments			Investors		
	Total	Acquisition	Establishments	Total	Foreign direct investors	U.S. affiliates	Total	Acquisition	Establishments	Total	Foreign direct investors	U.S. affiliates
NUMBER OF INVESTMENTS¹												
Total	1,580	837	743	1,742	727	1,015	1,617	839	778	1,768	670	1,098
Petroleum	42	32	10	43	9	34	23	17	6	24	3	21
Manufacturing	522	417	105	579	219	360	507	414	93	556	192	364
Wholesale trade	112	81	31	116	37	79	105	69	36	114	40	74
Retail trade	45	34	11	47	15	32	39	28	11	40	7	33
Banking	13	2	11	13	12	1	32	16	16	33	22	11
Finance, except banking	77	23	54	94	65	29	61	28	33	64	23	41
Insurance	20	14	6	21	2	19	26	21	5	26	7	19
Real estate	457	55	402	507	229	278	503	40	463	568	268	300
Services	195	132	63	219	98	121	203	139	64	217	68	149
Other ²	97	47	50	103	41	62	118	67	51	126	40	86
INVESTMENT OUTLAYS (mil. dol.)												
Total	71,163	59,708	11,455	71,163	22,538	48,625	65,932	55,315	10,617	65,932	14,026	51,906
Petroleum	1,189	1,125	64	1,189	122	1,068	1,141	1,013	128	1,141	6	1,135
Manufacturing	35,958	33,236	2,723	35,958	12,073	23,885	23,898	22,789	1,109	23,898	5,708	18,190
Wholesale trade	2,634	2,504	130	2,634	1,747	887	1,676	1,484	192	1,676	509	1,167
Retail trade	1,861	1,838	23	1,861	299	1,562	1,250	1,197	53	1,250	28	1,222
Banking	349	280	69	349	78	271	897	816	81	897	115	781
Finance, except banking	4,186	2,853	1,334	4,186	2,564	1,623	2,121	875	1,246	2,121	252	1,869
Insurance	1,901	1,768	133	1,901	28	1,873	2,093	2,007	87	2,093	1,134	959
Real estate	6,438	4,109	5,029	6,438	2,329	4,109	7,771	1,873	5,898	7,771	4,330	3,441
Services	10,058	8,333	1,725	10,058	3,057	7,001	19,369	17,912	1,457	19,369	906	18,463
Other	6,587	6,362	225	6,587	242	6,346	5,716	5,349	367	5,716	1,037	4,678

¹ Excludes investments that do not meet asset or acreage criteria in headnote. ² Includes agriculture, forestry, and fishing; mining; construction; transportation; and communication and public utilities.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1992.

No. 1323. U.S. Businesses Acquired by Foreign Direct Investors Assets, Sales, and Employment, by Industry of U.S. Business Enterprise: 1989 and 1990

[See headnote, table 1322. Minus sign (-) indicates loss]

INDUSTRY	1989					1990				
	Total assets (mil. dol.)	Sales (mil. dol.)	Net income (mil. dol.)	Employment (1,000)	Acres of land owned (1,000)	Total assets (mil. dol.)	Sales (mil. dol.)	Net income (mil. dol.)	Employment (1,000)	Acres of land owned (1,000)
Total	99,306	72,710	345	705.1	364.8	95,184	60,165	332	454.8	289.4
Petroleum	2,859	1,854	-69	4.1	(D)	(D)	864	22	2.9	1.5
Manufacturing	36,790	39,306	302	380.5	289.0	28,987	31,451	859	235.2	167.9
Wholesale trade	(D)	4,018	-52	17.5	0.7	2,156	4,320	26	9.2	4.8
Retail trade	5,488	8,139	69	175.3	2.1	957	1,427	11	36.2	0.5
Banking	(D)	(D)	(D)	(D)	(D)	10,057	438	51	2.7	(D)
Finance, except banking	22,054	2,447	186	7.0	4.2	6,079	832	-56	3.6	(D)
Insurance	(D)	3,346	32	8.1	0.1	(D)	1,580	106	9.2	(D)
Real estate	1,529	(D)	(D)	(D)	3.4	4,322	1,123	110	3.0	4.1
Services	8,066	4,799	-34	56.5	5.5	26,469	7,970	140	79.8	19.3
Other	9,417	8,213	-129	52.7	35.2	11,266	10,160	-937	73.1	87.0

D Withheld to avoid disclosure of data of individual companies. ¹ Includes agriculture, forestry, and fishing; mining; construction; transportation; and communication and public utilities.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1992.

No. 1324. U.S. Investment Position Abroad, by Country: 1980 to 1990

[In millions of dollars. Direct investments represent private enterprises in one country owned or controlled by investors in another country or in the management of which foreign investors have an important role. Negative position occurs when U.S. parent company's liabilities to the foreign affiliate are greater than its equity in, and loans to the foreign affiliate. See also *Historical Statistics, Colonial Times to 1970*, series U 41-46.]

COUNTRY	1980	1985	1987	1988	1989	1990			
						Total ¹	Manufacturing	Petroleum	Finance ²
All countries	215,375	230,250	314,307	335,893	370,091	421,494	168,220	59,736	98,889
Developed countries	158,214	172,058	237,508	252,649	274,564	312,188	134,658	41,551	67,917
Canada	45,119	46,909	57,783	62,656	65,548	68,431	33,231	10,691	12,025
Europe ³	96,287	105,171	150,439	157,077	175,213	204,204	83,992	24,356	52,227
Austria	524	493	691	669	588	767	63	(D)	(D)
Belgium	6,259	5,038	7,267	7,501	7,941	9,462	4,331	327	2,059
Denmark	1,266	1,281	1,070	1,161	1,234	1,633	286	(D)	295
France	9,347	7,643	11,868	13,041	14,069	17,134	11,051	(D)	960
Greece	347	210	132	195	264	300	84	37	(D)
Ireland	2,319	3,693	5,425	5,866	5,522	6,776	4,885	-41	1,549
Italy	5,397	5,906	9,264	9,496	10,294	12,971	8,535	605	1,005
Luxembourg	652	690	660	841	1,127	1,119	539	22	238
Netherlands	8,039	7,129	14,842	16,145	18,133	22,778	8,144	1,636	8,642
Norway	1,679	3,215	3,843	4,371	3,547	3,633	121	2,954	(D)
Portugal	257	237	495	546	488	590	285	(D)	(D)
Spain	2,678	2,281	4,076	4,966	6,096	7,480	4,998	116	3
Sweden	1,474	933	1,139	1,119	1,129	1,526	1,060	16	36
Switzerland	11,280	15,766	19,665	18,734	19,209	23,733	1,177	(D)	11,049
Turkey	207	234	207	246	310	507	117	173	(Z)
United Kingdom	28,460	33,024	44,512	49,459	59,827	64,983	20,636	11,331	23,071
West Germany	15,415	16,764	24,388	21,832	24,550	27,715	17,489	3,136	2,863
Japan	6,225	9,235	15,684	18,009	18,488	20,994	10,623	3,419	2,240
Australia	7,654	8,772	11,363	12,823	13,331	14,529	6,060	2,615	1,116
New Zealand	579	576	743	833	1,140	3,139	341	(D)	257
South Africa	2,350	1,394	1,497	1,252	843	889	411	(D)	54
Developing countries	53,208	52,764	73,017	80,060	92,098	105,721	33,582	15,658	30,972
Latin America	38,761	28,261	47,551	53,506	62,727	72,467	23,802	5,275	27,250
South America ³	16,342	17,623	21,227	21,815	23,612	24,920	15,242	2,038	2,065
Argentina	2,540	2,705	2,744	2,597	2,684	2,889	1,566	437	164
Brazil	7,704	8,893	10,951	12,609	14,522	15,416	11,286	650	1,351
Chile	536	88	348	672	1,069	1,341	275	(D)	418
Colombia	1,012	2,148	3,104	2,248	1,977	2,043	799	(D)	30
Ecuador	322	361	466	431	393	389	174	121	(D)
Peru	1,665	1,243	1,022	976	939	600	78	-2	(D)
Venezuela	1,908	1,588	2,095	1,903	1,503	1,581	963	278	74
Central America	10,193	9,658	12,218	13,380	16,050	18,911	8,171	2,269	5,647
Mexico	5,986	5,088	4,913	5,712	7,280	9,360	7,314	80	314
Panama	3,170	3,859	6,622	6,874	7,889	8,521	363	1,927	5,312
Other	1,037	611	683	794	881	1,029	494	263	21
Costa Rica	303	113	141	169	163	193	(NA)	(NA)	(NA)
El Salvador	105	73	51	56	57	66	(NA)	(NA)	(NA)
Guatemala	229	213	174	201	215	245	(NA)	(NA)	(NA)
Honduras	288	171	185	240	317	315	(NA)	(NA)	(NA)
Other W. Hemisphere ³	12,226	980	14,106	18,311	23,065	28,636	388	967	19,539
Bahamas, The	2,712	3,795	3,814	4,112	4,257	4,301	60	235	841
Bermuda	11,045	13,116	19,215	19,022	17,717	18,972	-	-60	18,185
Dominican Republic	316	212	156	138	361	478	(NA)	(NA)	(NA)
Jamaica	407	122	103	134	223	276	152	(D)	3
Netherlands Antilles	-4,336	-20,499	-14,235	-9,983	-5,956	-1,401	38	(D)	-1,689
Trinidad and Tobago	951	484	400	447	503	413	9	(D)	6
Other Africa	3,778	4,497	4,372	4,219	3,993	3,780	416	2,716	265
Egypt	1,038	1,926	1,669	1,637	1,744	1,451	45	1,117	-4
Libya	575	325	310	315	252	246	-	228	-
Nigeria	18	44	894	660	406	210	67	163	-
Middle East ³	2,163	4,606	4,084	3,806	4,166	4,755	911	2,033	884
Israel	379	717	635	701	756	818	311	(D)	(D)
Saudi Arabia	1,037	2,442	2,092	1,782	1,955	2,523	576	(D)	-
United Arab Emirates	384	792	694	672	652	584	13	(D)	(D)
Bahrain	-16	440	-340	-311	-28	-100	(NA)	(NA)	(NA)
Other Asia and Pacific	8,505	15,400	17,010	18,528	21,212	24,719	8,433	5,635	2,573
China: Taiwan	498	750	1,372	1,621	1,921	2,273	1,449	-9	127
Hong Kong	2,078	3,295	4,389	5,240	5,948	6,537	775	188	2,007
India	398	383	439	436	527	639	511	11	-1
Indonesia	1,314	4,475	3,070	2,921	3,770	3,827	135	3,209	(D)
Malaysia	632	1,140	952	1,135	1,174	1,425	861	379	47
Philippines	1,259	1,032	1,396	1,513	1,657	1,655	818	149	95
Singapore	1,204	1,874	2,384	2,311	2,318	3,971	2,361	775	126
South Korea	575	743	1,178	1,501	1,855	2,096	920	7	98
Thailand	361	1,074	1,274	1,132	1,271	1,515	461	719	23
Other	186	635	556	719	772	782	141	207	(D)
China: Mainland	-6	311	207	307	371	289	(NA)	(NA)	(NA)
International	3,955	5,428	3,782	3,184	3,430	3,586	-	2,527	-
Addendum-OPEC ⁴	6,090	10,383	9,899	8,827	9,046	9,828	1,930	5,516	941

- Represents zero. NA Not available. D Suppressed to avoid disclosure of data of individual companies. ¹ Includes industries not shown separately. ² Includes insurance. ³ Includes countries not shown separately. ⁴ OPEC=Organization of Petroleum Exporting Countries. Includes Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1991.

No. 1325. U.S. Government Foreign Grants and Credits: 1946 to 1990

[In millions of dollars. "P.L." means Public Law. For explanation of minus sign (-), see headnote, table 1326. See also text, section 29, and *Historical Statistics, Colonial Times to 1970*, series U 75-101]

PROGRAM	1946- 1955, total	1956- 1965, total	1966- 1975, total	1976- 1985, total	1986	1987	1988	1989	1990, prel.
Total, net.	51,509	49,723	70,368	104,189	15,017	9,403	8,082	10,206	14,143
Investment in international financial institutions ¹	635	655	2,719	10,432	1,481	1,212	1,314	1,173	1,301
Under assistance programs, net.	50,875	49,067	67,649	93,757	13,536	8,191	6,768	9,033	12,843
Developed countries ²	35,150	5,834	616	757	815	-801	-131	66	36
Developing countries ²	15,725	43,233	67,033	93,000	12,721	8,990	6,899	8,967	12,807
Net new military grants	14,200	21,564	30,236	14,957	4,125	3,131	3,576	3,728	6,638
Developed countries ²	8,910	7,931	691	1,369	162	261	305	321	551
Developing countries ²	5,291	13,633	29,545	13,587	3,963	2,870	3,272	3,408	6,087
Gross new grants	14,434	21,805	30,281	14,993	4,128	3,136	3,579	3,732	6,643
Foreign Assistance Act ³	13,427	21,769	30,281	14,993	4,128	3,136	3,578	3,732	6,643
Military supplies and services	12,282	20,662	9,802	2,438	99	57	92	44	73
Military assistance, service funded	-	8	18,161	-	-	-	-	-	-
Financing of military purchases ³	-	-	1,584	10,122	3,873	2,816	3,185	3,369	6,017
Relocation of facilities in Israel	-	-	-	800	-	-	-	-	-
Other special programs	1,145	1,100	734	1,633	157	263	301	319	553
Other	1,007	36	-	-	-	-	-	-	-
Less: Reverse grants and returns	234	241	45	36	3	5	2	3	5
Other grants, credits, and other assistance (through net accumulation of foreign currency claims)	36,675	27,503	37,413	78,800	8,411	5,060	3,192	5,305	6,205
Developed countries ²	26,240	-2,097	75	612	653	-1,062	436	-255	-515
Developing countries ²	10,434	29,600	37,488	79,412	8,750	6,122	3,627	5,560	6,720
Net new economic and technical aid grants ⁶	27,529	17,675	21,748	43,302	7,898	7,419	7,231	7,662	10,153
Developed countries ²	19,424	780	-182	464	98	67	72	56	-599
Developing countries ²	8,104	16,898	21,929	42,839	7,801	7,352	7,160	7,606	10,751
Gross new grants	28,769	17,993	22,003	43,311	7,950	7,419	7,231	7,662	15,670
Foreign Assistance Act	17,711	12,189	12,191	31,525	6,439	5,886	5,559	5,784	6,704
Farm products disposals:	-	-	-	-	-	-	-	-	-
Foreign currencies, P.L. 83-480 ⁷	-	2,048	4,234	186	3	6	1	1	1
Famine and other urgent relief	530	2,704	2,862	5,026	568	687	740	912	817
Payment of transportation	-	494	946	1,890	265	222	177	85	156
Food for development loan forgiveness	-	-	-	353	53	37	133	7	166
Supplies to military or trusteeship administration areas	5,528	132	536	1,246	217	173	202	155	50
Peace Corps	-	232	912	979	130	126	151	151	179
Forgiveness of Foreign Debt	-	-	-	-	-	-	-	207	7,206
Other	5,000	194	321	2,106	275	284	269	360	391
Less: Reverse grants and returns	1,240	318	255	9	52	-	-	-	-
Less: Receipts from Persian Gulf partners	-	-	-	-	-	-	-	-	5,517
Net new credits ⁸	8,605	7,025	16,955	35,785	1,507	2,332	-4,003	-2,335	-3,915
Developed countries ²	6,627	-3,207	310	-1,019	557	-1,091	481	-294	90
Developing countries ²	1,978	10,232	16,645	36,805	950	-1,241	-3,521	-2,060	-4,005
New credits	11,958	15,429	37,424	72,195	7,165	4,845	5,913	3,923	6,172
Export-Import Bank Act	4,241	5,257	15,506	22,096	1,251	990	1,060	761	2,423
Foreign Assistance Act	1,919	6,196	12,053	35,324	2,932	2,529	3,476	1,578	2,238
Country program loans	1,765	5,722	6,362	10,733	595	347	455	384	215
Financing of military purchases	9	247	3,089	24,288	2,307	2,169	2,992	1,159	1,993
Social Progress Trust Fund	-	226	487	142	-5	-9	-4	-1	-14
Other	145	2	116	162	35	22	34	36	45
P.L. 83-480 ⁷	48	3,839	7,161	8,142	991	826	959	793	863
Loans of foreign currency:	-	-	-	-	-	-	-	-	-
To foreign governments	48	3,285	1,843	10	-	2	(Z)	(Z)	3
To private enterprises	-	202	217	16	2	3	11	9	37
Long-term credit sales	-	352	5,101	8,116	988	821	948	784	823
P.L. 80-806 ⁹	-	-	2,433	5,559	1,982	500	418	790	649
Other	5,750	137	271	1,074	-	-	-	-	-
Less: Principal collections	3,353	8,404	20,469	36,410	5,648	7,176	9,915	6,277	10,087
Export-Import Bank Act	1,787	4,458	9,282	15,222	2,915	4,293	1,501	1,395	1,786
Foreign Assistance Act	38	1,263	3,557	11,234	1,674	2,336	7,718	3,861	7,261
Country program loans	1	944	2,481	4,212	537	470	489	745	599
Financing of military purchases	2	222	852	6,492	1,095	1,835	7,197	3,083	6,636
Social Progress Trust Fund	-	9	198	354	17	16	15	11	11
Other	35	88	25	177	25	14	18	21	14
P.L. 83-480 ⁷	-	180	3,753	2,923	368	275	468	355	577
Loans of foreign currency:	-	-	-	-	-	-	-	-	-
To foreign governments	-	111	2,354	551	37	29	24	27	31
To private enterprise	-	43	175	96	3	1	1	2	4
Long-term credit sales	-	27	1,223	2,276	327	245	444	237	542
Lend-lease, surplus property, and grant settlements	675	2,001	1,438	386	20	16	16	16	18
P.L. 80-806 ⁹	-	-	1,763	4,748	569	152	106	548	340
Other	853	501	677	1,897	101	105	106	103	107

See footnotes at end of table.

No. 1325. U.S. Government Foreign Grants and Credits: 1946 to 1990—Continued

[In millions of dollars. See headnote, p. 790]

PROGRAM	1946-1955, total	1956-1965, total	1966-1975, total	1976-1985, total	1986	1987	1988	1989	1990, prel.
Other assistance (through net accumulation of foreign currency claims) ¹⁰	541	2,802	-1,290	-287	5	-27	-36	-2	-34
Developed countries ³	190	330	-203	-56	-3	-38	-26	-17	-7
Developing countries ²	351	2,472	-1,086	-231	8	11	-10	14	-26
Currency claims acquired	813	11,498	6,888	1,227	134	84	82	66	76
Sales of farm products	813	11,170	3,013	114	49	41	35	25	13
Second-stage operations ¹¹	-	329	3,875	1,113	85	43	46	42	63
<i>Less: Currencies disbursed</i>	272	8,696	8,177	1,514	129	111	118	68	109
Economic grants and credits to purchasing country	182	6,863	6,238	180	10	15	16	10	37
Other uses	90	1,833	1,940	1,334	119	96	101	58	72

¹ Represents zero. ² Less than \$500,000. ³ For details, see table 1326. ⁴ Developed countries include Australia, Canada, Japan, New Zealand, South Africa, all countries listed under "Western Europe" in table 1326, except Portugal, Spain (through 1981), Yugoslavia, and Malta, and all countries listed under "Eastern Europe" in table 1326. Developing countries include all other countries listed in table 1326 (including Spain through 1981). ⁵ Foreign Assistance Act of 1961 (P.L. 87-195), as amended. Also includes predecessor and related programs. ⁶ Includes military assistance under Dept. of Defense Appropriation Act, 1966 (P.L. 89-394) and later acts. ⁷ Includes funds made available under Public Law 93-199 and subsequent legislation to release Israel from its contractual liability to pay for defense articles and services purchased under other legislation. ⁸ Net new grants are not adjusted for settlements for postwar relief and other grants under agreements, and net new credits exclude prior grants converted into credits, which were as follows: 1946-55, \$1,463 million; 1956-65, \$491 million; 1972, \$994 million. Repayments on these settlements are included in net new credits. ⁹ Agricultural Trade Development and Assistance Act. ¹⁰ Outstanding credits on Dec. 31, 1990, totaled \$60,650 million, representing net credits extended since organization of Export-Import Bank, Feb. 12, 1934, less chargeoffs and net adjustments due to exchange rates (\$2,055 million), and excluding World War I debts. The amount repayable in dollars at U.S. Government option was \$59,325 million; the remainder was repayable in foreign currencies, commodities, or services, at the option of the borrowers. ¹¹ Commodity Credit Corporation Charter Act.

¹⁰ Equivalent value of currencies still available to be used, including some funds advanced from foreign governments and after loss by exchange rate fluctuation (\$1,592 million), was \$44 million on Dec. 31, 1990. ¹¹ Includes foreign currencies acquired from triangular trade operations and principal and interest collections on credits, originally extended under P.L. 83-480, which—since enactment of P.L. 87-128—are available for the same purposes as P.L. 83-480 currencies.

Source: U.S. Bureau of Economic Analysis, press releases, and unpublished data.

No. 1326. U.S. Government Foreign Grants and Credits, by Type and Country:
1946 to 1990

[In millions of dollars. See text, section 29. Negative figures (-) occur when the total of grant returns, principal repayments, and/or foreign currencies disbursed by the U.S. Government exceeds new grants and new credits utilized and/or acquisitions of foreign currencies through new sales of farm products. See also *Historical Statistics, Colonial Times to 1970*, series U 75-166]

TYPE AND COUNTRY	1946-1955, total	1956-1965, total	1966-1975, total	1976-1985, total	1986	1987	1988	1989	1990, prel.
Total, net	51,509	49,723	70,368	104,189	15,017	9,403	8,082	10,206	14,143
Investment in financial institutions	635	655	2,719	10,432	1,481	1,212	1,314	1,173	1,301
African Development Bank	-	-	-	54	15	20	9	7	19
African Development Fund	-	-	-	125	53	45	40	34	75
Asian Development Bank	-	-	110	602	110	95	111	160	127
Inter-American Development Bank	-	300	1,321	2,770	361	189	124	97	90
Special Facility for Sub-Saharan Africa	-	-	-	-	24	65	48	-	-
International Bank for Reconstruction and Development	635	-	13	353	241	232	95	23	61
International Development Association	-	320	1,275	6,417	658	546	826	852	842
International Finance Corporation	-	35	-	111	28	7	25	-	75
Inter-American Investment Corporation	-	-	-	-	-	13	13	-	13
Under assistance programs	50,875	49,067	67,649	93,757	13,536	8,181	6,768	9,033	12,843
Developed Countries	35,150	5,834	616	757	815	801	131	66	36
Developing Countries	15,725	43,233	67,033	92,999	12,721	8,992	6,899	8,967	12,807
Western Europe	33,067	6,752	1,004	1,626	-9	-167	118	-247	-58
Austria	1,001	193	-19	34	9	-9	-9	-11	-10
Belgium and Luxembourg	1,570	305	17	-46	-9	-9	-9	-9	-9
Denmark	596	276	64	-58	-7	-6	-	-	-
Finland	86	-26	-19	21	-47	8	6	7	-8
France	8,661	-171	-93	-222	-26	-13	-14	-14	-15
Germany	-	-	-	-	-	-	-	-	-338
Germany, Federal Republic of	3881	10	-117	-117	-3	-3	-	-1	-
Iceland	34	33	-8	-12	-2	-2	-4	(Z)	(Z)
Ireland	146	-16	-51	7	2	-2	-6	-7	2
Italy	3,851	1,435	85	133	-107	-21	-28	-28	-30
Netherlands	1,716	322	116	-180	-1	-1	-	-	-
Norway	697	362	379	-257	-16	-4	-	-	-
Portugal	248	241	34	1,003	178	8	66	71	56
Spain	258	1,203	607	965	66	-11	-113	-474	-122
Sweden	107	-20	17	-1	-6	-5	-3	-2	-
United Kingdom	7,458	105	-546	-964	-202	-347	-105	-109	-111
Yugoslavia	1,356	1,151	84	174	-21	-41	-2	11	-39
Other ¹ and unspecified	1,399	1,351	454	1,146	199	290	338	320	566

See footnotes at end of table.

**No. 1326. U.S. Government Foreign Grants and Credits, by Type and Country:
1946 to 1990—Continued**

[In millions of dollars. See headnote, p. 791]

COUNTRY	1946-1955, total	1956- 1965, total	1966- 1975, total	1976- 1985, total	1986	1987	1988	1989	1990, prel.
Eastern Europe	823	501	226	1,029	1,249	-161	-121	419	784
Czechoslovakia	136	-	-5	-5	-	-	-	(Z)	-
Poland	350	555	75	1,017	1,348	-44	-53	524	749
Romania	-	-	92	55	-26	-50	-1	-59	64
Soviet Union	292	-59	214	-44	-66	-66	-66	-46	-30
Other and unspecified	45	5	-5	6	-6	-	-	-	1
Near East and South Asia	4,944	16,828	17,195	50,793	7,926	6,276	2,128	4,440	6,563
Afghanistan	31	227	185	56	-3	29	30	76	57
Bangladesh	-	-	701	1,670	178	150	170	138	172
Cyprus	-	19	20	188	21	17	14	19	16
Egypt	41	1,009	271	13,600	2,729	1,614	3,490	2,085	4,977
Greece	2,026	1,281	905	362	72	304	488	306	282
India	370	4,890	3,810	1,021	36	66	139	69	-32
Iran	314	1,061	914	-847	-	-	-19	-	-
Iraq	13	81	-5	5	-5	21	29	-16	-7
Israel	390	483	3,760	25,417	4,030	3,115	-1,826	1,902	4,377
Jordan	26	495	618	1,320	7	109	-231	162	135
Kuwait	-	-	-	-	-	-	-	-	-2,506
Lebanon	15	78	90	233	-12	-4	-7	(Z)	5
Nepal	3	86	105	177	20	22	19	15	19
Oman	-	-	(Z)	79	12	-33	9	8	4
Pakistan	189	3,092	2,048	1,971	347	235	389	-388	522
Saudi Arabia	12	35	23	-20	-1	-	-	-	-1,614
Sri Lanka	(Z)	89	153	512	65	40	43	43	72
Syria	1	57	15	262	(Z)	(Z)	(Z)	(Z)	(Z)
Turkey	1,295	3,020	2,703	3,760	298	449	-720	-91	367
United Arab Emirates	-	-	-	-	-	-	(Z)	-	-361
Yemen (Sanaa)	-	40	24	216	39	47	33	42	14
Yemen	-	-	-	-	-	-	-	-	28
UNRWA	-	274	296	596	67	61	54	39	7
Other and unspecified	98	510	559	263	27	34	26	29	27
Africa	147	2,272	3,610	11,074	1,300	1,110	1,258	980	1,792
Algeria	1	135	263	345	-128	-98	-58	-77	59
Angola	-	-	6	115	27	24	2	-13	-16
Benin	-	7	12	44	3	3	5	12	5
Botswana	-	(Z)	35	169	20	28	20	15	17
Burkina	-	5	40	287	30	24	18	14	14
Burundi	-	4	5	62	5	5	5	3	18
Cameroon	-	16	50	150	11	13	24	18	42
Cape Verde	-	-	1	68	9	7	6	4	6
Chad	(Z)	5	20	145	25	35	38	15	24
Ethiopia	13	200	297	310	88	13	71	37	51
Ghana	(Z)	64	203	152	13	10	17	46	13
Guinea	-	58	68	74	16	24	19	5	15
Ivory Coast	-	14	57	57	5	-3	27	2	27
Kenya	(Z)	34	76	549	39	46	47	54	109
Lesotho	-	(Z)	27	197	23	24	23	19	15
Liberia	24	139	86	459	52	23	27	13	20
Madagascar	(Z)	7	13	86	21	17	19	7	30
Malawi	-	5	30	56	11	19	34	44	31
Mali	-	12	58	199	45	34	50	27	31
Mauritania	-	1	20	161	19	12	11	14	11
Morocco	7	464	413	948	177	85	185	-5	94
Mozambique	-	-	1	175	34	69	56	48	75
Niger	-	5	64	223	39	43	25	34	33
Nigeria	(Z)	87	284	267	1	1	169	44	156
Rwanda	-	2	13	24	16	16	9	9	13
Senegal	-	18	48	361	45	49	45	46	60
Sierra Leone	(Z)	22	36	85	12	12	8	12	2

See footnotes at end of table.

No. 1326. U.S. Government Foreign Grants and Credits, by Type and Country:
1946 to 1990—Continued

[In millions of dollars. See headnote, p. 791]

COUNTRY	1946- 1955, total	1956- 1965, total	1966- 1975, total	1976- 1985, total	1986	1987	1988	1989	1990, prel.
Africa—Continued									
Somalia	(Z)	42	47	582	111	69	62	38	77
Sudan	-	86	52	1,358	164	101	110	118	145
Swaziland	-	(Z)	8	58	9	16	12	11	14
Tanzania	2	34	123	259	10	40	16	16	40
Togo	-	9	18	60	10	13	9	15	10
Tunisia	2	407	376	563	7	-7	-175	56	38
Uganda	-	12	33	40	4	17	21	20	31
Zaire	(Z)	258	342	938	104	112	141	72	241
Zambia	-	1	35	331	77	36	18	21	58
Zimbabwe	-	(Z)	(Z)	271	22	33	6	12	10
Other and unspecified	96	118	350	781	117	154	133	157	173
Far East and Pacific									
Far East and Pacific	9,678	16,199	34,780	9,635	-84	-2,614	308	381	-132
Australia	-9	(Z)	276	-12	-118	-30	-26	-18	-34
Burma	25	134	43	31	7	10	9	1	1
Cambodia	28	327	1,771	-	-	-	-	-	-
China: Mainland	-	-	-	49	-8	9	48	35	71
Taiwan	1,267	2,681	1,523	648	-262	-970	-8	-7	-7
Hong Kong	3	35	41	11	11	-8	-8	-8	-8
Indonesia	246	501	1,390	1,661	13	-12	-3	36	48
Japan and Ryukyu Islands	3,267	1,318	345	-210	-88	-319	-4	-1	-635
Laos	37	647	1,868	-	-	-	-	-	-
Malaysia	1	30	86	39	-15	-12	-9	-36	-1
New Zealand	3	2	95	-68	-10	-4	-4	-4	-2
Pacific Islands, Trust Territory of the	28	89	488	1,260	219	166	138	156	52
Philippines	1,028	554	729	1,466	449	331	421	310	557
Singapore	-	(Z)	78	110	-184	1	1	1	2
South Korea	1,420	4,744	5,426	3,518	-146	-1,717	-383	-132	-192
Thailand	192	727	996	733	62	-77	72	12	-21
Vietnam	244	3,566	19,721	-	-	-	-	-	-
Other and unspecified	1,898	644	595	400	27	18	65	36	39
Western Hemisphere									
Western Hemisphere	1,248	5,181	6,816	9,861	1,815	2,100	1,448	1,117	1,887
Argentina	86	342	34	21	85	27	16	-6	64
Bolivia	77	288	270	414	111	124	82	131	109
Brazil	509	1,400	1,518	399	7	34	(Z)	-202	235
Canada	-1	4	272	317	-61	-158	-50	-30	-41
Chile	100	740	724	-565	56	26	11	-46	-32
Colombia	43	446	846	298	63	22	-23	-36	-29
Costa Rica	15	83	103	687	139	159	107	143	103
Dominican Republic	2	184	360	550	230	78	52	52	26
Ecuador	32	131	144	153	59	60	47	23	46
El Salvador	3	56	93	1,681	376	418	405	406	300
Guatemala	23	146	160	270	91	159	142	161	92
Guyana	(Z)	7	71	36	2	8	5	8	42
Haiti	27	75	42	370	87	94	41	76	49
Honduras	6	53	113	801	224	212	194	133	218
Jamaica	16	3	120	643	121	92	95	138	107
Mexico	225	178	305	1,162	-29	543	62	-100	131
Nicaragua	8	67	150	197	(Z)	(Z)	(Z)	(Z)	97
Panama	10	103	210	205	24	10	13	8	99
Paraguay	4	67	86	22	(Z)	(Z)	(Z)	1	(Z)
Peru	55	304	274	757	98	74	67	36	79
Trinidad and Tobago	-	35	21	151	-32	-33	-11	16	5
Uruguay	8	90	116	-9	11	-3	9	-6	-4
Venezuela	6	156	115	-35	-31	-38	-28	-21	-18
Central American Bank for Economic Integration	-	6	121	36	-5	-4	-3	-1	-5
Caribbean Development Bank	-	-	8	108	-1	-1	-2	-2	-2
Other ⁴ and unspecified	-6	218	543	1,193	189	197	219	233	215
Other International organizations and unspecified areas	969	1,335	4,018	9,739	1,319	1,648	1,623	1,943	2,007

- Represents zero. Z Less than \$500,000. ¹ Includes European Atomic Energy Community, European Coal and Steel Community, European Payments Union, European Productivity Agency, North Atlantic Treaty Organization, and Organization for European Economic Cooperation. ² United Nations Relief and Works Agency for Palestine refugees. ³ Excludes transactions after October 1986, with Commonwealth of the Northern Mariana Islands; includes transactions with Federated States of Micronesia, Republic of the Marshall Islands, and Republic of Palau. ⁴ Includes Andean Development Corporation, Eastern Caribbean Central Bank, Inter-American Institute of Agricultural Sciences, Organization of American States, and Pan American Health Organization.

Source: U.S. Bureau of Economic Analysis, press releases; and unpublished data.

No. 1327. U.S. Foreign Economic and Military Aid Programs: 1946 to 1990

[In millions of dollars. For years ending June 30 except, beginning 1977, ending Sept. 30. Economic aid shown here represents U.S. economic aid—not just aid under Foreign Assistance Act. Major components in recent years include AID, Food for Peace, Peace Corps, and paid-in subscriptions to international financial institutions, such as IBRD, and IDB. Cumulative totals for 1946-1990 are true totals net of deobligation; annual figures however, are gross unadjusted program figures. Military aid includes Military Assistance Program (MAP) grants, foreign military credit sales, service-funded programs, and excess defense articles]

PERIOD OR YEAR AND REGION	Total economic and military aid	ECONOMIC AID			MILITARY AID		
		Total	Loans	Grants	Total	Loans	Grants
1946-1990, total	374,046	232,971	56,364	176,607	141,075	40,983	100,092
1946-1952	41,661	31,116	8,518	22,598	10,545	-	10,545
1953-1961	43,358	24,053	5,850	18,203	19,305	161	19,144
1962-1969	50,254	33,392	15,421	17,972	16,862	1,620	15,242
1970-1979	65,714	26,902	9,995	16,907	38,812	14,178	24,633
1980-1986	96,368	63,081	10,941	52,140	33,287	19,758	13,529
1980-1987	111,650	73,261	12,194	61,067	38,389	20,711	17,678
1980-1988	125,442	82,222	13,046	69,176	43,220	21,474	21,746
1980-1989	140,130	92,082	13,740	78,342	48,048	21,884	26,164
1980-1990	155,857	102,916	14,496	88,420	52,941	22,288	30,653
1970	6,568	3,676	1,389	2,288	2,892	70	2,822
1975	6,916	4,908	1,679	3,229	2,009	760	1,259
1976	6,412	3,878	1,759	2,119	2,535	1,442	1,093
1976, TQ	2,603	1,931	840	1,091	672	494	178
1977	7,784	5,594	2,083	3,511	2,190	1,411	779
1978	9,014	6,661	2,530	4,131	2,353	1,601	752
1979	13,845	7,120	1,900	5,220	6,725	5,173	1,552
1980	9,695	7,573	1,993	5,580	2,122	1,450	672
1981	10,550	7,305	1,460	5,845	3,245	2,546	699
1982	12,324	8,129	1,454	6,675	4,195	3,084	1,111
1983	14,202	8,603	1,619	6,984	5,599	3,932	1,667
1984	15,524	9,038	1,621	7,417	6,486	4,401	2,085
1985	18,128	12,327	1,579	10,748	5,801	2,365	3,436
1986	16,739	10,900	1,330	9,570	5,839	1,980	3,859
1987	14,488	9,386	1,138	8,248	5,102	953	4,149
1988	13,792	8,961	852	8,109	4,831	763	4,068
1989	14,688	9,860	694	9,166	4,828	410	4,418
1990	15,727	10,834	756	10,078	4,893	404	4,489
Near East and South Asia	7,377	3,136	373	2,763	4,241	404	3,837
East Asia	687	535	21	514	152	-	152
Europe	373	284	64	220	89	-	89
Latin America	2,144	1,910	184	1,726	234	-	234
Africa	1,176	1,062	111	951	114	-	114
Oceania and other	25	25	-	25	(Z)	-	(Z)
Non-regional	3,945	3,883	3	3,880	63	-	63

* Represents zero. Z Less than \$500,000. ¹ Transition quarter, July-Sept.

No. 1328. U.S. Foreign Military Aid, by Region and Selected Countries: 1985 to 1990

[In millions of dollars. For years ending Sept. 30. Military aid data include Military Assistance Program (MAP) foreign military credit sales, International Military Education and Training, and excess defense articles]

REGION AND COUNTRY	1985	1987	1988	1989	1990	REGION AND COUNTRY	1985	1987	1988	1989	1990
Total	5,801	5,102	4,831	4,828	4,893	Camereroon	5	1	(Z)	(Z)	(Z)
Europe	531	191	88	105	89	Djibouti	3	1	1	1	2
Portugal	128	83	85	103	87	Gabon	(Z)	(Z)	(Z)	(Z)	(Z)
Spain	403	108	2	2	2	Kenya	22	12	6	16	11
Near East and South Asia	4,248	4,299	4,231	4,202	4,241	Liberia	13	1	1	1	(Z)
Egypt	1,177	1,302	1,302	1,302	1,296	Morocco	50	46	53	53	44
Greece	501	344	344	351	349	Niger	5	2	1	1	2
Israel	1,400	1,800	1,800	1,800	1,792	Somalia	34	8	7	1	2
Jordan	92	42	28	12	70	Sudan	46	6	1	1	2
Lebanon	1	1	(Z)	(Z)	Tunisia	67	34	28	31	31	
Oman	40	(Z)	(Z)	(Z)	Zaire	8	5	4	4	4	
Pakistan	326	314	261	231	230	Latin America ¹	269	215	144	164	234
Turkey	704	494	493	504	501	Colombia	1	5	4	8	73
Yemen	6	2	2	2	2	Costa Rica	11	2	(Z)	(Z)	(Z)
East Asia	416	171	182	157	152	Dominican Rep	9	3	1	1	21
Indonesia	34	12	6	3	2	Ecuador	7	5	1	5	1
Malaysia	5	1	1	1	2	El Salvador	136	112	82	81	81
Philippines	42	103	128	128	143	Haiti	1	1	(Z)	(Z)	1
South Korea	232	2	2	2	2	Honduras	67	61	41	41	21
Thailand	102	52	46	24	5	Jamaica	8	3	(Z)	4	1
Africa	279	139	116	118	114	Panama	11	4	-	-	-
Botswana	9	2	(Z)	1	2	Peru	9	(Z)	(Z)	3	2
						Nonregional	58	88	70	82	63

* Represents zero. Z Less than \$500,000. ¹ Includes countries not shown separately.

Source of tables 1327 and 1328: U.S. Agency for International Development, *U.S. Overseas Loans and Grants and Assistance from International Organizations*, annual.

No. 1329. U.S. Foreign Aid—Commitments for Economic Assistance, by Region and Selected Countries: 1985 to 1990

[In millions of dollars. For years ending Sept. 30. Falls under economic portion of the Foreign Assistance Act. Data cover commitments for economic and technical assistance by AID. See text, section 29]

REGION AND COUNTRY	1985	1987	1988	1989	1990	REGION AND COUNTRY	1985	1987	1988	1989	1990
Total.	8,132	6,355	5,705	6,136	6,964	Liberia	60	27	10	21	(Z)
Europe	94	106	77	54	141	Malawi	25	13	44	21	23
Italy	2	(Z)	-	-	-	Mali	32	12	21	27	21
Portugal	80	65	32	50	39	Mauritania	11	4	4	2	1
Spain	12	5	3	-	-	Mauritius	7	3	15	2	(Z)
Near East and South Asia	3,867	2,763	2,523	2,562	2,565	Morocco	38	28	31	32	31
Bangladesh	76	80	49	53	56	Niger	28	27	35	24	20
Cyprus	15	15	10	20	5	Rwanda	19	9	5	9	12
Egypt	1,065	820	718	817	901	Senegal	44	35	24	49	37
Israel	1,950	1,200	1,200	1,200	1,195	Seychelles	2	3	3	3	3
Jordan	100	111	24	16	4	Sierra Leone	(Z)	1	1	1	1
Lebanon	20	13	5	3	8	Somalia	51	36	10	13	1
Nepal	18	16	12	15	17	Sudan	149	21	17	5	8
Oman	20	15	13	15	13	Swaziland	9	9	16	7	7
Pakistan	250	276	365	265	276	Tanzania	(Z)	58	9	10	9
Sri Lanka	35	26	28	29	21	Togo	4	5	4	4	4
Turkey	175	102	32	60	14	Tunisia	23	18	12	13	14
Yemen (Sanaa)	28	25	22	24	23	Uganda	9	7	25	14	43
Regional	23	-5	-	-	12	Zaire	36	33	31	36	31
East Asia	313	440	225	541	482	Zambia	42	17	13	7	17
Burma	15	7	6	-	-	Zimbabwe	41	6	13	29	28
Indonesia	72	88	42	50	48	Regional	96	52	65	110	73
Philippines	183	253	78	347	314	Latin America	1,506	1,310	967	937	1,486
Thailand	36	27	25	23	14	Belize	23	13	8	8	6
East Asia Regional	7	65	74	122	106	Bolivia	18	29	38	37	58
Africa	900	620	644	748	666	Costa Rica	196	161	101	115	78
Botswana	10	6	13	9	9	Dominican Rep.	126	20	33	20	18
Burkina	8	9	4	6	4	Ecuador	33	37	15	27	17
Burundi	4	2	6	2	20	El Salvador	376	415	266	253	200
Cameroon	24	31	19	33	22	Grenada	11	-	-	-	-
Cape Verde	3	2	3	3	3	Guatemala	76	154	110	114	86
Chad	16	11	17	16	11	Guyana	-	-	-	-	21
Congo	1	1	1	1	1	Haiti	31	75	31	40	42
Djibouti	4	2	4	3	3	Honduras	205	175	130	53	167
Equatorial Guinea	1	1	1	1	1	Jamaica	115	44	40	65	28
Gambia, The	6	9	4	4	5	Nicaragua	-	-	-	4	220
Ghana	2	3	7	10	15	Panama	74	12	1	-	396
Guinea	4	2	18	16	15	Paraguay	1	1	1	1	1
Guinea-Bissau	4	1	1	2	3	Peru	38	21	28	22	22
Kenya	40	37	43	56	36	ROCAP ²	107	58	59	48	30
Lesotho	11	13	26	10	7	Regional	30	29	74	100	88
						Nonregional	1,453	1,116	1,269	1,296	1,625

- Represents zero. Z Less than \$500,000. ¹ Includes countries not shown separately. ² Regional programs covering Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, and Panama.

Source: U.S. Agency for International Development, *U.S. Overseas Loans and Grants and Assistance from International Organizations*, annual, and unpublished data.

No. 1330. U.S. Exports and Imports of Merchandise: 1970 to 1991

[In billions of dollars, except percent. Includes silver ore and bullion; beginning 1974, includes shipments of nonmonetary gold. Data may differ from those shown in other tables due to revisions and inclusion of the Virgin Islands since 1974. For basis of dollar values, see text, section 29. See also *Historical Statistics, Colonial Times to 1970*, series U 190-195 and U 207-212]

YEAR	Merchandise trade balance	EXPORTS ¹				GENERAL IMPORTS ⁴				AVERAGE ANNUAL PERCENT CHANGE ⁵	
		Domestic				Total ³	Petro- leum	Machin- ery	Trans- port equipment	Domestic exports	General imports
		Total ²	Agricul- tural	Machin- ery	Trans- port equipment						
1970	2.7	42.7	42.0	7.2	11.4	6.5	40.0	2.8	5.3	5.9	14.1
1971	-2.0	43.5	42.9	7.7	11.6	7.9	45.6	3.3	6.0	7.9	1.9
1972	-6.4	49.2	48.4	9.4	13.2	8.3	55.6	4.3	7.8	9.6	13.1
1973	1.3	70.8	69.7	17.7	17.1	10.7	69.5	7.6	10.0	11.1	43.9
1974	4.5	98.1	96.5	22.0	23.7	14.5	102.6	24.3	11.6	12.5	38.6
1975	9.1	107.7	106.1	21.9	28.5	17.2	98.5	24.8	12.0	12.2	9.8
1976	-8.3	115.2	113.5	23.0	31.3	18.2	123.5	31.8	15.2	14.6	7.0
1977	-29.2	121.2	118.9	23.7	32.5	18.5	150.4	41.5	17.7	17.8	5.2
1978	-31.1	143.7	141.0	29.4	37.0	22.3	174.8	39.1	24.4	23.2	18.6
1979	-27.6	181.9	178.6	34.8	44.7	25.8	209.5	56.0	28.0	25.6	26.6
1980	-24.2	220.6	216.5	41.3	55.8	28.8	244.9	77.6	31.9	28.6	21.3
1981	-27.3	233.7	228.9	43.3	62.9	32.8	261.0	75.6	38.2	31.4	5.9
1982	-31.8	212.3	207.1	36.6	60.3	23.6	244.0	59.4	39.7	33.6	-9.2
1983	-57.5	200.5	196.0	36.1	54.3	28.3	258.0	52.3	47.0	39.2	5.6
1984	-107.9	217.9	212.1	37.8	60.3	29.7	325.7	55.9	68.4	50.8	8.7
1985	-132.1	213.1	206.9	29.2	59.5	34.8	345.3	49.6	75.3	62.0	-2.2
1986	152.7	217.3	206.4	26.1	60.4	34.9	370.0	34.1	87.5	74.0	2.0
1987	-152.1	254.1	243.9	28.6	69.6	39.0	406.2	41.5	99.4	78.4	16.9
1988	-118.6	322.4	310.0	37.0	88.4	46.7	441.0	38.8	117.3	79.8	26.9
1989	-109.6	363.8	349.4	40.0	98.3	50.5	473.4	49.1	126.8	79.0	12.8
1990	-101.7	393.6	375.1	38.7	122.4	32.1	495.3	60.5	134.8	72.4	8.2
1991	-66.2	421.9	400.9	38.5	139.7	34.9	488.1	50.1	131.8	70.6	-1.5

¹ Includes "Special Category" items and beginning 1974, includes trade of Virgin Islands with foreign countries. F.a.s. value basis.
² Domestic and foreign exports excluding M.A.P. Grant-Aid shipments, through 1985; 1986 through 1988 include Grant-Aid shipments.
³ Includes commodity groups not shown separately.
⁴ 1970-73, 1982-91, customs value basis; 1974-81, f.a.s. value basis. Beginning 1974, includes trade of Virgin Islands with foreign countries.
⁵ 1970, change from 1965; thereafter, from previous year. For explanation of average annual percent change, see Guide to Tabular Presentation.

Source: U.S. Bureau of the Census, 1970-88, *Highlights of U.S. Export and Import Trade*, FT 990, monthly; beginning 1989, *U.S. Merchandise Trade: Export, General Imports, and Imports for Consumption*, FT 925, monthly.

No. 1331. U.S. Exports, by State of Origin: 1989 to 1991

[In millions of dollars. Exports are on a f.a.s. value basis]

STATE	1989	1990	1991		STATE	1989	1990	1991	
			Total	Rank				Total	Rank
Total	364,350	394,045	421,851	(X)	MT.....	283	229	279	48
U.S.	271,830	315,065	351,343	(X)	NE.....	669	693	960	40
AL.....	2,950	2,834	3,325	26	NV.....	283	394	427	44
AK.....	2,024	2,850	3,134	28	NH.....	935	973	988	39
AZ.....	3,300	3,729	4,465	20	NJ.....	6,492	7,633	8,740	13
AR.....	728	920	1,147	37	NM.....	192	249	309	47
CA.....	40,231	44,520	50,415	1	NY.....	19,580	22,072	23,261	4
CO.....	2,153	2,274	2,574	29	ND.....	299	360	335	45
CT.....	3,667	4,356	4,995	19	OH.....	10,172	13,378	14,855	7
DE.....	841	1,344	1,441	36	OK.....	1,428	1,646	1,770	33
DC.....	229	320	269	(X)	OR.....	3,878	4,065	4,264	22
FL.....	10,196	11,634	13,257	9	PA.....	6,809	8,491	9,411	12
GA.....	4,859	5,763	6,815	15	RI.....	526	595	679	43
HI.....	160	179	148	50	SC.....	2,875	3,116	3,741	23
ID.....	750	898	958	41	SD.....	129	205	218	49
IL.....	10,434	12,965	14,025	8	TN.....	2,918	3,746	4,344	21
IN.....	4,246	5,273	5,724	16	TX.....	30,020	32,931	40,079	2
IA.....	2,172	2,189	2,263	30	UT.....	1,114	1,596	1,906	32
KS.....	1,674	2,113	2,148	31	VT.....	1,016	1,154	1,091	38
KY.....	2,509	3,175	3,217	27	VA.....	7,657	9,333	10,004	11
LA.....	15,033	14,199	15,456	6	WA.....	19,305	24,432	27,053	3
ME.....	691	870	915	42	WV.....	1,234	1,550	1,656	35
MD.....	2,441	2,592	3,363	25	WI.....	4,129	5,158	5,319	18
MA.....	8,619	9,501	10,018	10	WY.....	237	264	328	46
MI.....	14,881	18,474	20,236	5	PR.....	2,901	3,600	3,657	(X)
MN.....	4,413	5,091	5,376	17	VI.....	63	51	171	(X)
MS.....	1,466	1,605	1,738	34	Other.....	89,556	75,328	66,680	(X)
MO.....	2,415	3,130	3,367	24					

X Not applicable. ¹ Includes unreported, not specified, special category, estimated shipments, foreign trade zone, and re-exports.

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade*, series FT 900, December issues.

No. 1332. U.S. Exports and Imports for Consumption of Merchandise, by Coastal Area and Customs District: 1980 to 1991

[In billions of dollars. Exports are f.a.s. (free alongside ship) value all years; imports are on customs value basis for years 1983 to present; f.a.s. value basis for 1980. See also *Historical Statistics, Colonial Times to 1970*, series U 264-273]

U.S. COASTAL AREA AND CUSTOMS DISTRICT	EXPORTS							IMPORTS FOR CONSUMPTION						
	1980	1985	1987	1988	1989	1990	1991	1980	1985	1987	1988	1989	1990	1991
Total ¹	220.8	213.1	252.9	320.4	363.8	393.0	421.9	244.0	343.6	402.1	437.1	468.0	490.6	483.0
North Atlantic area	66.8	46.5	53.4	69.2	79.2	85.7	90.6	79.8	107.1	123.0	126.3	126.8	128.7	123.6
Portland, ME	4.3	0.6	0.8	1.0	1.2	1.7	2.1	1.6	2.3	3.3	3.4	3.5	4.3	3.8
St. Albans, VT	0.7	1.1	1.6	1.9	2.7	4.0	4.1	1.6	2.7	3.2	3.6	4.2	5.2	5.2
Boston, MA	0.8	3.0	4.4	5.7	6.2	5.6	4.3	5.0	8.2	12.0	12.6	12.0	12.2	11.8
Providence, RI	2.7	0.1	(Z)	(Z)	(Z)	(Z)	(Z)	1.5	2.3	1.6	1.5	1.4	1.3	1.1
New York, NY	38.9	28.5	32.8	42.4	47.0	50.9	54.6	43.4	60.5	68.4	69.7	70.4	68.0	67.4
Philadelphia, PA	3.2	2.0	2.4	3.4	3.9	4.0	4.4	15.6	15.8	15.6	15.6	16.0	18.3	16.1
Baltimore, MD	9.0	5.5	5.4	6.8	7.7	6.7	8.0	6.0	8.8	11.8	12.1	11.8	11.2	10.1
Norfolk, VA	8.0	5.4	5.5	7.3	9.4	11.7	11.5	4.7	6.0	6.3	7.0	6.8	7.4	7.4
Washington, DC	0.3	0.5	0.5	0.7	1.1	1.1	1.6	0.4	0.5	0.7	0.8	0.7	0.8	0.7
South Atlantic area	14.7	15.0	18.7	24.2	27.7	31.0	34.5	15.5	20.4	26.6	28.4	31.5	34.5	33.6
Wilmington, NC	1.3	1.3	1.1	1.4	2.1	3.0	2.8	1.1	1.9	2.5	2.9	3.0	3.3	3.4
Charleston, SC ²	3.1	2.9	3.6	5.0	6.2	6.7	7.2	1.8	3.3	5.9	6.1	6.5	6.8	6.3
Savannah, GA	2.4	3.4	4.4	6.0	6.8	7.4	8.4	2.2	5.1	7.4	8.3	4.5	9.8	10.1
San Juan, PR	0.9	1.2	1.4	1.7	2.1	2.5	2.4	3.7	4.0	3.9	4.1	4.7	5.4	4.8
Virgin Islands of the U.S.	0.1	0.1	0.1	0.1	0.2	0.3	0.3	4.1	1.7	1.7	1.0	1.6	2.1	1.7
Miami, FL	6.9	6.1	8.1	9.9	10.4	11.2	13.4	2.6	4.4	5.7	6.0	6.2	7.1	7.3
Gulf area	51.1	38.4	39.0	49.7	56.9	58.2	66.0	62.3	50.5	53.1	56.3	64.1	72.3	67.6
Tampa, FL	2.8	2.8	2.7	3.6	4.0	4.3	5.2	3.7	6.6	7.4	7.3	6.7	7.0	6.8
Mobile, AL ²	2.6	1.1	1.4	1.4	1.9	1.9	2.2	3.0	2.8	2.9	2.8	3.4	3.4	3.3
New Orleans, LA	19.5	13.9	14.0	16.9	18.5	18.0	18.8	22.5	14.7	15.9	17.1	20.6	24.1	22.3
Port Arthur, TX	2.0	0.8	0.9	1.1	1.2	0.9	0.7	9.4	2.7	1.9	1.8	2.8	3.2	2.8
Laredo, TX	8.3	7.2	7.5	10.6	13.4	15.2	18.2	2.7	4.8	6.8	7.9	9.4	10.0	10.4
St. Louis, MO	0.2	0.1	0.2	0.2	0.5	0.3	0.4	0.9	1.6	2.3	2.7	3.0	3.0	2.8
Houston/Galveston, TX	15.7	12.5	12.5	15.9	17.4	17.6	20.5	20.5	20.1	17.3	16.0	16.7	18.2	19.2
Pacific area	43.8	49.6	61.1	82.8	98.9	111.2	120.0	43.1	80.4	101.6	111.8	121.4	125.7	127.3
San Diego, CA	1.4	1.6	1.7	2.5	3.0	3.4	3.9	1.0	1.8	2.7	3.4	4.0	4.3	4.7
Los Angeles, CA	14.8	19.5	23.7	32.0	38.6	42.1	46.0	20.0	44.1	53.6	58.0	62.3	64.1	66.4
San Francisco, CA	10.6	11.3	14.3	19.1	21.4	23.1	23.9	8.3	15.5	21.8	25.1	27.1	28.0	29.2
Portland, OR	3.8	3.5	3.7	5.6	6.2	5.8	6.0	2.6	3.8	4.6	5.8	5.7	5.6	5.3
Seattle, WA	12.0	12.1	15.7	20.9	26.6	32.6	35.0	9.2	13.4	17.2	17.8	20.2	20.9	18.9
Anchorage, AK	1.0	1.3	1.7	2.2	2.6	3.7	4.6	0.2	0.2	0.1	0.2	0.4	0.7	0.9
Honolulu, HI	0.2	0.4	0.4	0.6	0.5	0.5	0.6	1.8	1.6	1.6	1.7	2.1	2.1	1.9
Great Lakes area	35.0	46.5	54.8	62.6	63.9	78.7	80.6	37.0	72.3	81.9	95.9	103.7	107.5	108.1
Ogdensburg, NY	3.8	4.1	4.7	5.3	5.6	7.9	7.5	4.6	6.8	7.9	8.5	9.2	9.8	9.9
Buffalo, NY	6.3	8.4	9.5	10.5	9.5	15.8	15.7	7.4	14.7	15.4	18.1	19.0	19.2	18.7
Pembina, ND	2.3	2.2	2.5	2.8	3.4	3.4	4.3	3.0	3.2	2.7	3.3	3.9	4.1	4.1
Minneapolis, MN	0.1	0.2	0.3	0.5	0.8	0.9	0.9	0.3	1.0	1.4	1.6	1.9	2.0	2.2
Duluth, MN	1.5	0.9	0.7	1.2	1.2	0.8	0.8	3.0	3.0	2.9	3.2	3.5	3.9	3.3
Milwaukee, WI	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.4	1.0	0.9	1.1	0.9	1.1	1.1
Detroit, MI	14.6	22.8	26.6	30.1	28.9	35.6	36.0	12.7	27.4	29.7	35.7	38.7	37.8	37.6
Chicago, IL	4.2	5.4	6.9	8.7	10.0	10.2	11.3	4.1	11.4	13.8	16.1	17.4	18.3	19.4
Cleveland, OH	1.8	2.1	3.4	3.4	3.9	4.0	4.0	1.5	3.8	7.3	8.3	9.2	11.3	11.8
Other statistical areas ³	7.4	17.1	25.9	31.8	37.7	28.2	30.2	6.3	12.7	15.8	18.5	19.8	21.9	22.8
El Paso, TX	1.8	2.1	2.6	3.8	4.0	3.9	4.7	1.4	2.5	3.4	4.5	5.1	5.0	5.5
Nogales, AZ	0.8	0.8	1.0	1.3	1.5	2.1	2.2	1.2	2.0	3.1	3.2	3.7	4.2	4.4
Great Falls, MT	1.8	1.5	1.2	1.6	1.8	2.4	3.3	3.2	4.0	3.7	4.0	4.1	4.7	4.6
Dallas/Fort Worth, TX	0.5	1.0	1.5	2.1	2.7	3.4	2.6	1.2	2.4	3.3	4.1	4.1	4.8	4.9

Z Less than \$50 million. ¹ Totals shown for exports reflect the value of estimated parcel post and Special Category shipments, and beginning 1987, adjustments for undocumented exports to Canada which are not distributed by coastal area/customs district. Beginning 1985, the value of bituminous coal exported through Norfolk, VA; Charleston, SC; and Mobile, AL is reflected in the total but not distributed by district. Total bituminous coal exports for the 3 customs districts were valued at \$2.3 billion in 1984, \$2.6 billion in 1985, \$2.3 billion in 1986, \$1.9 billion in 1987, and \$2.4 billion in 1988. ² Beginning 1985, excludes exports of bituminous coal. ³ Includes estimated shipments and vessel-owned power.

Source: U.S. Bureau of the Census, 1980-1988, *Highlights of U.S. Export and Import Trade*, FT 990; beginning 1989, *U.S. Merchandise Trade: Selected Highlights*, series FT 920, monthly.

No. 1333. Export and Import Unit Value Indexes—Selected Countries: 1986 to 1991

[Indexes in U.S. dollars, 1985 = 100. A unit value is an implicit price derived from value and quantity data. NA Not available]

COUNTRY	EXPORT UNIT VALUE						IMPORT UNIT VALUE				
	1986	1987	1988	1989	1990	1991	1986	1987	1988	1989	1990
United States	101	103	110	113	114	(NA)	97	104	109	112	116
Australia	97	106	132	141	(NA)	(NA)	105	116	127	127	(NA)
Austria	133	156	161	155	182	(NA)	125	144	147	143	167
Belgium-Luxembourg	119	139	145	146	167	162	111	129	135	135	152
Canada	95	103	112	119	119	118	97	101	107	112	116
Denmark	127	148	149	146	170	165	119	134	138	137	152
France	123	140	146	144	166	159	110	125	130	129	149
Germany	131	154	159	156	179	173	114	129	133	134	150
Italy	122	142	149	150	175	174	105	120	124	127	144
Japan	120	131	144	142	142	152	85	92	98	101	107
Norway	87	93	96	101	117	(NA)	116	131	140	140	155
Sweden	120	138	148	151	168	(NA)	111	128	138	137	152
United Kingdom	103	119	130	148	148	148	110	124	135	133	149

Source: International Monetary Fund, Washington, DC, *International Financial Statistics*, monthly.

No. 1334. U.S. Domestic Exports and General Imports of Selected Commodities—Value, by Area: 1990

[In millions of dollars. Includes nonmonetary gold. Exports are f.a.s. (free alongside ship) transaction value basis; imports are customs value basis]

SELECTED MAJOR COMMODITIES	Total ¹	WESTERN HEMISPHERE		WESTERN EUROPE				ASIA		
		Canada	Mexico	United	Ger-	France	Italy	Japan	China:	South
				King-	man-y ¹				Taiwan	Korea
Domestic exports, total.	393,592	83,674	28,279	23,490	18,760	13,664	7,992	48,580	11,491	14,404
Meat and meat preparations	3,219	496	270	8	10	65	16	1,567	15	129
Fish (except marine mammal)										
crustaceans, etc., preparations	2,907	391	26	100	66	86	26	1,799	43	107
Cereals and cereal preparations	12,629	347	931	42	72	48	107	2,419	659	827
Vegetables and fruit	5,544	2,123	208	240	297	127	70	938	171	56
Feeding stuff for animals										
not including unmilled cereal	2,938	328	131	76	31	94	92	370	55	15
Miscellaneous edible products and										
preparations	1,005	246	55	14	8	7	2	66	40	24
Tobacco and tobacco manufactures	6,516	12	3	59	253	24	61	1,622	159	115
Hides, skins, and furskins, raw	1,768	120	99	4	12	20	42	457	114	780
Oil seeds and oleaginous fruits	3,914	135	232	132	227	39	77	848	413	197
Cork and wood	5,254	686	166	111	116	38	177	2,690	112	316
Pulp and waste paper	4,073	298	323	160	289	198	281	777	203	405
Textile fibers & their wastes										
(excluding wool tops, etc.)	3,904	151	118	55	208	13	199	629	140	508
Crude fertilizers & crude minerals	1,320	278	71	37	61	15	49	292	41	61
Metaliferous ores and metal scrap	5,094	934	231	175	153	58	133	1,036	202	646
Crude animal and vegetable										
materials, n.e.s.	1,065	216	110	49	64	23	37	147	14	29
Coal, coke and briquettes	4,639	615	25	245	45	296	538	597	178	186
Petroleum, petroleum products, and										
related materials	6,721	988	610	81	48	175	214	722	309	550
Organic chemicals	10,556	1,150	604	359	451	197	230	1,137	873	698
Inorganic chemicals	3,894	473	224	127	243	57	51	987	129	217
Dyeing, tanning and coloring materials	1,603	429	99	104	54	20	16	116	37	88
Medicinal and pharmaceutical products	4,177	462	106	221	328	271	293	765	50	53
Essential oils, etc.; toilet,										
polishing, preparations	2,024	412	131	128	73	64	27	249	53	51
Fertilizers	2,590	189	46	5	37	58	15	160	2	82
Plastics in primary forms	6,457	1,184	537	257	206	84	56	448	255	264
Plastics in nonprimary forms	2,657	745	325	136	144	70	58	196	46	62
Chemical materials and products, n.e.s.	5,576	1,127	253	209	273	308	111	569	94	204
Rubber manufacturers, n.e.s.	2,134	991	204	78	73	26	17	235	17	32
Cork and wood manufactures										
other than furniture	1,277	279	109	137	117	10	24	109	40	54
Paper, paperboard and articles	5,055	1,336	633	244	154	64	91	513	94	127
Textile yarn, fabrics, made-up articles,										
n.e.s.	5,065	1,248	516	300	189	94	138	272	65	106
Nonmetallic mineral manufactures, n.e.s.	4,589	1,164	231	184	114	69	54	548	71	89
Iron and steel	3,515	1,462	563	108	62	59	57	215	28	150
Nonferrous metals	5,293	1,435	370	226	135	123	72	1,574	358	168
Manufactures of metals, n.e.s.	6,075	2,288	907	360	286	141	72	366	90	138
Power generating machinery										
and equipment	16,111	4,262	863	1,263	699	2,067	198	912	471	354
Machinery specialized for particular										
industries	15,787	3,389	965	904	685	554	276	1,001	288	549
Metalworking machinery	2,668	563	214	207	205	75	66	217	96	194
General industrial machinery,										
equipment, parts	16,178	4,928	1,415	898	688	540	259	855	498	704
Office machines and automatic data										
processing machines	27,788	4,180	941	3,171	2,710	1,471	716	3,678	469	656
Telecommunications, sound recording,										
reproduction apparatus and equipment	9,927	1,582	1,529	746	548	218	208	973	577	306
Electrical machinery, apparatus,										
and appliances, n.e.s.	31,764	7,669	3,749	1,763	1,402	1,009	586	2,390	1,440	1,395
Road vehicles (incl. air-cushion vehicles)	30,981	18,062	3,274	445	1,191	361	106	1,584	846	242
Transport equipment, n.e.s.	32,340	1,883	522	4,091	2,132	1,435	686	3,689	430	962
Furniture, bedding, mattresses, etc.	1,639	747	325	80	44	24	8	80	13	10
Articles of apparel and clothing										
accessories	2,559	236	403	94	46	69	54	306	7	8
Professional scientific and control										
instruments and apparatus	12,614	2,036	770	1,001	1,018	705	473	1,613	276	471
Photo apparatus, equipment and optical										
goods, n.e.s.; watch and clocks	3,942	592	197	437	238	333	85	601	46	51
Miscellaneous manufactured articles	20,971	4,033	1,148	1,821	1,315	811	344	3,448	442	501
Special transactions and commodities										
not classified by kind	2,962	1,040	201	132	135	48	22	145	80	33
Gold, nonmonetary (excluding ores &										
concentrates)	2,991	530	94	689	97	336	8	16	3	4
Shipments under \$10,000 and under										
\$1,500 documented exports	9,011	1,183	1,264	722	485	374	196	618	168	135

See footnotes at end of table.

No. 1334. U.S. Domestic Exports and General Imports of Selected Commodities—Value, by Area: 1990—Continued

[In millions of dollars. See headnote, page 798]

SELECTED MAJOR COMMODITIES	Total ¹	WESTERN HEMISPHERE		WESTERN EUROPE				ASIA		
		Canada	Mexico	United Kingdom	Germany ¹	France	Italy	Japan	China: Taiwan	South Korea
Imports, total	495,310	91,380	30,157	20,188	28,162	13,153	12,751	89,684	22,666	18,485
Meat and meat preparations	2,958	649	3	(Z)	1	4	6	4	(Z)	(Z)
Fish (except marine mammal) crustaceans, etc., preps	5,192	1,174	278	24	3	9	2	147	168	124
Vegetables and fruit	5,795	278	1,441	15	76	17	42	38	71	26
Coffee, tea, cocoa, spices manufacturers thereof	3,355	149	374	30	80	10	16	4	13	1
Beverages	3,806	543	248	633	192	893	355	30	3	4
Cork and wood	3,123	2,785	111	1	3	1	9	(Z)	11	(Z)
Pulp and waste paper	2,867	2,546	2	(Z)	2	(Z)	-	(Z)	1	(Z)
Metalliferous ores and metal scrap, related materials	3,990	1,209	282	37	39	33	2	16	3	2
Petroleum, petroleum products, and										
Gas, natural and manufactured	60,468	6,583	5,101	2,068	64	354	522	26	(Z)	9
Organic chemicals	3,443	2,836	161	14	8	11	8	2	(Z)	
Inorganic chemicals	7,427	847	156	764	1,072	420	354	844	42	73
Medicinal and pharmaceutical products	3,204	1,057	236	242	400	187	47	158	10	3
Chemical materials and products, n.e.s.	2,491	100	15	456	337	114	179	213	4	3
Rubber manufactures, n.e.s.	2,022	236	51	158	348	126	43	250	11	4
Cork and wood manufactures other than furniture	3,544	831	72	112	228	153	111	1,061	185	255
Paper, paperboard and articles	2,103	700	100	11	27	43	53	11	288	12
Textile yarn, fabrics, made-up articles, n.e.s.	8,491	6,286	191	156	292	121	71	237	60	73
Nonmetallic mineral manufactures, n.e.s.	6,424	403	292	294	318	203	479	580	445	490
Iron and steel	9,882	701	437	602	412	327	700	739	384	123
Nonferrous metals	9,866	1,505	358	391	877	665	252	2,155	161	574
Manufactures of metals, n.e.s.	9,792	3,923	521	390	432	172	38	467	28	8
Power generating machinery and equipment	8,911	1,361	499	289	625	239	235	1,584	1,559	568
Machinery specialized for particular industries	14,552	2,742	1,074	1,830	1,605	1,897	183	3,284	95	82
Metalworking machinery	12,990	1,420	140	1,072	3,073	593	790	3,349	314	69
General industrial machinery, equipment, parts	3,677	246	8	222	672	62	158	1,519	162	36
Office machines and automatic data processing machines	14,461	1,717	737	925	2,142	379	732	3,856	846	416
Telecommunications, sound recording, reproduction apparatus and equipment	22,230	969	2,773	209	140	107	53	9,348	1,450	1,706
Electrical machinery, apparatus and appliances, n.e.s.	33,564	3,316	4,563	936	2,018	603	297	8,897	2,192	2,507
Road vehicles (incl air-cushion vehicles)	72,305	26,121	3,646	1,374	6,722	699	788	27,356	870	1,292
Transport equipment, n.e.s.	7,254	2,422	31	1,159	181	1,055	332	526	65	80
Furniture, bedding, mattresses, etc.	5,006	1,208	580	93	201	69	534	166	1,008	67
Travel goods, handbags and similar containers	2,223	17	46	7	16	72	195	9	407	446
Articles of apparel and clothing accessories	25,622	251	712	213	138	227	929	160	2,491	3,259
Footwear	9,584	53	164	43	28	48	986	5	1,525	2,565
Professional scientific and control instruments and apparatus	6,206	526	523	651	958	242	86	1,643	180	91
Photo apparatus, equipment and optical goods, n.e.s.; watch and clock	7,128	181	135	224	368	270	305	2,781	348	135
Miscellaneous manufactured articles, n.e.s.	25,000	1,277	779	1,482	1,007	833	1,554	4,622	2,987	1,562
Special transactions and commodities not classified by kind	11,890	3,579	1,007	1,265	887	574	193	827	98	104
Estimate of low valued import transactions	3,442	878	292	212	343	115	115	528	152	40

¹ Represents zero. Z Less than \$500,000. X Not applicable. ¹ Effective October 3, 1990 East Germany ceased to exist as a sovereign state and became a part of West Germany. However, trade statistics for Germany comprise of statistics for West Germany and East Germany combined for the period shown. ² Other than fertilizers covered in SITC division 56 (Fertilizers).

³ Other than crude fertilizers covered in SITC division 272.

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption*, series FT 927.

No. 1335. U.S. Exports, Imports, and Merchandise Trade Balance, by Continent, Area, and Country: 1985 to 1991

[In millions of dollars, except percent. Includes silver ore and bullion. Country totals include exports of special category commodities, if any. Data include nonmonetary gold beginning 1985; data include trade of Virgin Islands with foreign countries, see footnote 2 for exception. Minus sign (-) denotes an excess of imports over exports. See Historical Statistics, Colonial Times-SeeHistorical Statistics, Colonial Times to 1970, series U 317-352, for selected countries]

COUNTRY	EXPORTS, DOMESTIC AND FOREIGN				GENERAL IMPORTS ¹				MERCHANDISE TRADE BALANCE				
	1985	1986	1989	1991	1985	1989	1990	1991	1985	1989	1990	1991	
Total ²	213,146	363,812	393,592	421,851	345,276	473,211	495,311	486,055	-132,130	-109,399	-101,718	-66,205	
Afghanistan	3	5	4	3	2,333	5	5	5	-1,903	-1,074	-1	-2	
Angola	430	756	951	727	2,626	2,100	1,786	1,786	-917	-1,832	-1,674	-1,372	
Anguilla	137	97	152	188	1,054	1,939	1,904	1,786	-1,291	-17	-1,752	-1,598	
Argentina	17	15	11	95	2,049	1,969	1,391	1,511	1,291	-348	-382	-333	
Australia	1,039	1,179	2,049	1,054	2,937	3,873	4,447	4,010	2,604	4,458	4,091	758	
Austria	5,441	8,351	8,598	8,416	1,055	834	1,186	1,318	1,274	-393	-263	-444	-219
Bahamas, The	873	875	800	721	626	482	509	470	160	310	291	251	
Bahrain	786	772	800	721	501	84	80	81	87	409	640	444	
Bangladesh	107	489	181	179	196	428	539	524	23	-147	-357	-345	
Barbados	219	282	180	161	167	202	246	312	-29	134	130	135	
Belgium and Luxembourg	173	180	161	105	10,791	3,987	4,585	4,139	1,531	9,968	5,872	6,652	
Belize	4,918	8,532	10,456	10,105	114	47	43	47	46	9	58	69	
Bermuda	56	354	255	233	136	190	99	111	12	8	251	242	
Bolivia	120	145	136	136	190	99	118	203	209	21	-66	-19	
Botswana	16	30	19	31	29	29	17	14	13	-13	13	6	
Brazil	3,140	4,804	5,046	6,154	7,326	8,410	7,698	6,727	-4,386	-3,606	-2,856	-573	
Bulgaria	104	181	84	142	36	59	47	56	68	122	37	86	
Burma	10	5	20	24	14	17	23	27	-4	-12	-3	-3	
Cameroon	69	35	47	46	324	426	147	127	-255	-391	-100	-81	
Cayman Islands	47,251	78,809	83,674	85,103	69,006	87,953	91,141	91,141	-21,755	-9,144	-7,707	-6,039	
Central African Republic	75	204	183	116	11	48	21	18	64	165	162	99	
Chad	1	6	1	1	8	3	2	1	-7	3	-1	-	
Chile	25	35	8	14	-	-	-	-	25	35	8	14	
China: Mainland	682	1,414	1,664	1,840	745	1,232	1,313	1,304	-63	122	351	536	
Colombia	3,896	5,755	4,806	6,287	3,962	11,930	15,237	18,976	24	6,235	-10,431	-12,689	
Costa Rica	1,498	1,824	2,029	1,947	1,331	2,555	3,168	2,734	137	-631	-1,139	-767	
Cuba	422	892	986	1,034	501	902	1,006	1,154	-79	-91	-19	-120	
Cyprus	1	3	1	(2)	(2)	(2)	(2)	(2)	31	3	1	1	
Czechoslovakia	45	109	129	119	14	15	19	13	94	111	106	106	
	63	53	91	124	76	85	87	144	-13	-32	4	-20	

Merchandise Trade, by Country

801

COUNTRY	EXPORTS, DOMESTIC AND FOREIGN					GENERAL IMPORTS ¹					MERCHANDISE TRADE BALANCE			
	1985	1989	1990	1991	1995	1985	1989	1990	1991	1985	1989	1990	1991	
Denmark	706	1,051	1,311	1,572	1,665	1,535	1,678	1,666	1,659	-984	-367	-94	-94	
Dominican Republic	1,645	1,656	1,743	982	1,646	1,732	2,017	-240	-1	-96	-274	(X)	(X)	
East Germany	73	94	62	(X)	92	139	85	(X)	-19	-45	-23	-23	-23	
Ecuador	591	643	678	948	1,837	1,474	1,376	1,326	-1,246	-832	-687	-380	-380	
Egypt	2,323	2,612	2,249	2,721	79	246	398	206	2,244	2,395	1,851	2,514	2,514	
El Salvador	445	520	534	534	396	245	238	303	149	275	316	231	231	
Ethiopia	203	67	157	210	43	70	40	15	160	-3	-3	196	196	
Finland	438	968	1,126	951	895	1,370	1,262	1,089	-457	-402	-136	-138	-138	
France	11,579	13,685	15,385	9,482	13,014	13,153	13,372	-3,386	-1,335	511	1,993	1,993	1,993	
French Guiana	114	270	150	85	502	437	701	712	101	265	269	149	149	
Gabon	91	46	49	11	11	227	247	2	-41	-390	-652	-627	-627	
Gambia	10	10	9	11	11	24,972	28,162	26,229	-11,189	9	9	7	7	
Germany ³	16,956	18,760	21,317	20,239	24,971	21,127	169	152	-36	-8,015	-9,402	-4,913	-4,913	
Ghana	54	121	140	142	90	10	1	1	1	12	-7	-29	-10	
Gibraltar	13	2	32	10	1	1	1	1	1	31	10	31	10	
Greece	498	697	763	1,036	395	473	509	433	103	224	255	603	603	
Greenland	6	4	4	4	4	2	1	4	2	3	5	0	0	
Guadeloupe	28	34	53	83	3	2	1	2	25	33	52	82	82	
Guatemala	405	692	784	951	409	609	794	900	-4	53	53	51	51	
Guyana	43	78	76	86	47	56	53	84	-4	22	23	3	3	
Haiti	396	472	76	392	390	374	343	285	6	97	134	107	107	
Honduras	515	564	627	375	461	491	557	567	-67	54	73	73	73	
Hong Kong	2,786	6,291	8,140	8,140	8,140	9,722	9,622	9,286	-5,610	-3,431	-2,805	-1,146	-1,146	
Hungary	94	122	156	218	328	348	367	367	-124	-207	-191	-111	-111	
Iceland	38	179	222	158	248	208	163	208	-210	-228	69	-52	-52	
India	1,642	2,458	2,496	2,003	2,295	3,316	3,187	3,197	-653	-557	-711	-1,195	-1,195	
Indonesia	795	1,247	1,897	1,892	4,569	3,529	3,341	3,239	-3,774	-2,882	-1,444	-1,347	-1,347	
Iran	427	74	55	163	527	725	9	231	-651	147	156	156	156	
Iraq	1,169	1,169	732	474	2,415	3,008	6	-47	-1,246	-2,276	-2,276	-6	-6	
Ireland	1,342	2,483	2,540	2,683	901	1,566	1,755	1,956	441	917	784	727	727	
Israel	2,239	2,827	3,203	3,856	2,123	1,576	3,313	3,497	116	1,251	110	359	359	
Ivory Coast	4,625	7,215	7,982	8,579	9,674	11,933	12,751	11,788	-5,049	-4,718	-4,760	-3,209	-3,209	
Jamaica	404	1,006	943	963	82	525	234	200	-455	-555	-121	-139	-139	
Japan	22,631	44,494	48,580	48,147	68,783	509	569	576	131	497	374	387	387	
Jordan	377	380	369	220	14	8	11	91,583	-46,152	-49,659	-41,105	-43,436	-43,436	

See footnotes at end of table.

No. 1335. U.S. Exports, Imports, and Merchandise Trade Balance, by Country: 1985 to 1991—Continued

[See headnote, page 800.]

Merchandise Trade, by Country

803

COUNTRY	EXPORTS, DOMESTIC AND FOREIGN				GENERAL IMPORTS ¹				MERCHANDISE TRADE BALANCE			
	1985	1989	1990	1991	1985	1989	1990	1991	1985	1989	1990	1991
Saudi Arabia	4,574	3,574	4,049	6,572	1,907	7,157	10,021	10,972	2,567	-3,533	-5,971	-4,406
Senegal	61	69	52	776	5	41	6	56	27	46	65	65
Sierra Leone	13	25	27	26	16	53	46	48	-28	-19	-23	-23
Singapore	3,476	7,345	8,023	8,808	4,260	9,003	9,800	9,976	-784	-1,658	-1,778	-1,169
Somalia	57	21	172	7	2,113	2,072	1,551	3	55	21	11	5
South Africa	1,205	1,659	1,732	2,113	2,071	1,551	1,698	1,733	-866	128	34	380
South Korea	5,956	13,458	14,404	15,518	10,013	19,737	18,485	17,025	-4,057	-6,278	-4,081	-1,506
Spain	2,224	4,284	3,087	3,578	409	709	1,059	813	2,014	3,574	2,028	2,765
Sri Lanka	23	143	137	5213	5,482	2,515	3,317	3,311	2,854	9	1,479	1,901
Sudan	243	81	42	121	282	449	538	605	-209	-306	-401	-484
Suriname	98	140	156	92	92	20	16	16	234	61	26	77
Sweden	1,925	3,139	3,405	3,288	60	74	50	52	26	66	106	83
Switzerland	2,288	4,911	4,943	5,558	4,24	4,892	4,937	4,502	-2,199	-1,783	-1,533	-1,214
Syria	106	91	150	207	3	79	52	25	-1,188	-197	-645	-27
China: Taiwan	4,700	11,325	11,491	13,191	16,396	24,313	22,666	23,036	-103	-7	98	182
Tanzania	46	29	48	35	10	53	16	15	-11,986	-12,978	-11,175	-9,845
Thailand	849	2,268	2,995	3,758	1,228	4,380	5,289	6,125	36	33	33	20
Togo	17	28	31	24	12	3	4	3	-579	-2081	-2,293	-2,368
Trinidad and Tobago	504	563	428	469	1,288	798	1,020	856	5	25	257	21
Tunisia	256	160	177	171	13	55	40	33	243	105	137	138
Turkey	1,295	2,003	2,243	2,423	602	1,372	1,183	1,009	693	632	1,061	1,414
Turks and Caicos Islands	12	46	39	40	4	3	4	4	8	43	36	36
Uganda	5	23	26	13	113	41	15	18	-108	-17	11	4
United Kingdom	11,273	20,827	23,490	22,064	14,937	18,319	20,198	18,520	-3,664	2,518	3,302	3,544
Uruguay	3,64	134	144	216	6,557	219	206	238	-493	-55	-62	-21
Venezuela	3,999	3,025	3,108	4,668	6,537	6,771	9,480	8,229	-3,138	-3,746	-6,371	-3,560
Yugoslavia	985	499	565	370	542	798	776	677	53	-300	-211	-306
Zaire	105	122	138	62	401	380	325	302	-286	-208	52	-19
Zambia	60	50	60	24	58	24	29	42	2	26	52	-19
Zimbabwe	46	121	135	53	52	127	119	89	-6	16	16	-35

¹ Represents zero. ² Less than \$50,000. ³ Includes revisions not carried to area values; therefore, area values will not add to total. ⁴ Effective October 3, 1990, East Germany became a part of West Germany. Accordingly, trade statistics for East Germany reflect the consolidation of the two countries for 1991. September 1990. Trade statistics for 1990 for former West Germany reflect this unification beginning with October 1990. Data for Germany reflect the consolidation of the two countries for 1991.

Source: U.S. Bureau of the Census, 1985, *Highlights of U.S. Export and Import Trade, FT 990*, monthly, and 1989-1991, *U.S. Merchandise Trade, series FT 900*, monthly.

**No. 1336. Domestic Exports and General Imports, by Selected Commodity Groups:
1989 to 1991**

[In millions of dollars]

COMMODITY GROUP	DOMESTIC EXPORTS ¹			GENERAL IMPORTS ²		
	1989	1990	1991	1989	1990	1991
Total	363,811.5	393,592.3	421,850.7	473,210.8	495,310.5	488,055.4
Agricultural commodities	41,319.4	36,722.9	38,462.6	22,035.5	22,343.1	22,171.2
Animal feeds	3,081.1	2,868.2	3,178.7	279.0	283.8	313.7
Bulbs	427.2	109.2	112.5	343.2	161.9	177.9
Cereal flour	694.5	685.7	811.2	558.1	568.5	641.2
Cocoa	22.0	38.1	22.5	732.0	783.1	823.2
Coffee	12.7	11.8	9.8	2,273.5	1,766.4	1,735.6
Corn	6,734.2	6,195.5	5,147.3	551.0	23.3	39.3
Cotton, raw and linters	2,267.5	2,799.5	2,492.0	9.5	19.9	16.3
Dairy products; eggs	446.5	371.7	453.7	4,409.0	501.0	452.4
Furskins, raw	173.3	144.3	106.5	115.8	78.3	56.7
Grains, unmilled	1,045.2	811.0	701.0	162.6	110.3	117.9
Hides and skins	1,576.6	1,612.5	1,278.2	97.9	94.4	109.8
Live animals	531.7	514.1	686.6	869.6	1,184.7	1,174.2
Meat and preparations	2,963.8	3,189.1	3,627.8	2,580.0	2,958.2	2,913.2
Oils/fats, animal	37.9	425.3	446.5	0.4	21.2	28.7
Oils/fats, vegetable	739.6	684.6	598.6	655.5	715.7	742.1
Plants	92.6	102.7	99.6	71.5	99.1	107.8
Rice	981.4	798.2	752.2	61.9	71.7	80.3
Seeds	224.1	245.9	273.0	125.5	119.4	132.1
Soybeans	4,011.5	3,597.3	3,997.7	23.9	15.3	27.4
Sugar	3.3	7.8	12.1	605.3	848.0	708.3
Tobacco, unmanufactured	1,339.9	1,444.7	1,427.6	667.6	679.6	991.3
Vegetables and fruit	4,530.4	5,015.0	5,329.3	4,908.6	5,794.6	5,396.2
Wheat	5,907.1	3,886.7	3,348.1	57.5	80.1	66.1
Other agricultural	3,475.3	3,184.1	3,550.1	5,877.1	5,364.6	5,319.5
Manufactured goods	272,166.4	298,236.4	325,850.8	379,425.4	388,819.7	393,069.6
ADP equipment, office machinery	23,992.2	24,735.5	25,953.6	25,714.5	26,862.2	30,064.3
Airplanes	14,432.6	19,641.3	24,158.2	2,947.8	2,793.1	3,436.1
Airplane parts	8,791.6	9,814.9	10,263.6	2,929.1	3,556.0	4,085.4
Aluminum	2,988.2	2,856.6	3,124.6	3,143.5	2,843.0	2,409.1
Artwork/antiques	1,653.0	2,281.9	1,240.2	2,172.2	2,340.1	1,980.8
Basketware, etc	966.0	1,097.3	1,288.6	1,800.6	1,836.8	1,913.0
Chemicals, cosmetics	1,553.5	1,964.4	2,360.8	1,157.6	1,322.8	1,417.3
Chemicals, dyeing	2,248.9	1,591.4	1,647.5	1,131.0	1,286.8	1,415.8
Chemicals, fertilizers	2,707.8	2,577.9	2,980.0	1,003.2	921.2	919.2
Chemicals, inorganic	4,319.0	3,822.6	4,102.0	3,244.2	3,204.4	3,298.7
Chemicals, medicinal	3,692.5	4,102.9	4,606.2	2,087.6	2,490.8	3,052.8
Chemicals, organic	10,872.9	10,427.0	10,927.9	7,004.2	7,427.2	8,156.8
Chemicals, plastics	8,559.1	9,073.7	10,322.4	3,308.9	3,744.4	3,785.1
Chemicals, n.e.s	5,106.7	5,489.9	6,019.8	1,777.1	2,022.1	2,123.0
Clothing	2,290.7	2,471.7	3,211.6	24,537.4	25,621.5	26,205.8
Copper	945.8	1,213.0	1,325.6	2,140.4	1,774.1	1,600.9
Electrical machinery	25,409.3	28,405.7	29,935.2	32,373.0	32,564.1	35,103.1
Footwear	532.2	476.9	542.5	8,393.8	9,563.8	9,561.0
Furniture and parts	1,294.8	1,605.4	2,113.2	4,907.9	5,006.0	4,938.3
Gem diamonds	1,097.6	320.5	209.2	4,347.3	3,973.6	4,006.1
General industrial machinery	15,034.5	15,828.1	17,107.1	14,486.9	14,461.3	14,422.5
Glass	979.0	1,086.6	1,127.8	788.8	759.9	770.7
Glassware	342.9	400.7	447.9	889.4	939.4	938.0
Gold, nonmonetary	2,544.9	2,970.0	3,295.1	1,498.5	1,081.4	1,934.8
Iron and steel mill products	3,559.2	3,270.3	4,214.1	9,392.7	8,805.2	8,312.3
Lighting, plumbing	623.7	680.4	974.0	1,159.5	1,238.5	1,247.2
Metal manufactures, n.e.s	4,494.4	4,782.7	5,169.2	6,371.6	6,440.9	6,376.2
Metallurgical machinery	2,738.5	2,759.3	2,706.3	3,867.9	3,677.3	3,622.6
Motorcycles, bicycles	729.2	935.0	1,302.6	1,552.5	1,438.0	1,635.9
Nickel	243.6	227.9	217.9	1,521.9	1,101.8	1,062.7
Optical goods	544.5	638.7	711.5	1,371.4	1,470.2	1,485.5
Paper and paperboard	4,585.5	5,004.3	5,961.8	8,491.6	8,490.6	8,024.4
Photographic equipment	2,535.0	2,773.1	2,926.2	3,435.6	3,340.9	3,652.7
Plastic articles, n.e.s	1,700.0	1,945.1	2,236.7	2,998.6	3,138.4	3,115.4
Platinum	226.6	224.0	313.8	1,365.3	1,856.2	1,663.9
Pottery	69.6	71.1	87.1	1,243.9	1,222.3	1,244.8
Power generating machinery	15,348.7	15,795.8	16,967.5	14,257.1	14,552.2	14,230.3
Printed materials	3,002.2	3,164.3	3,578.8	1,617.8	1,668.8	1,705.3
Records/magnetic media	2,957.2	3,877.4	4,263.0	2,446.5	2,531.4	2,786.5
Rubber articles, n.e.s	670.5	504.7	574.5	912.5	649.7	704.8
Rubber tires and tubes	819.1	1,147.6	1,272.7	2,383.8	2,591.1	2,310.2

See footnotes at end of table.

Exports and Imports of Leading Commodities

805

No. 1336. Domestic Exports and General Imports, by Selected SITC Commodity Groups: 1989 to 1991—Continued [In millions of dollars]

COMMODITY GROUP	DOMESTIC EXPORTS ¹			GENERAL IMPORTS ²		
	1989	1990	1991	1989	1990	1991
Manufactured goods—Continued						
Scientific instruments	11,488.6	12,121.2	13,487.6	5,848.9	6,206.4	6,757.4
Ships, boats	1,050.2	1,276.9	1,154.3	578.7	329.2	248.1
Silver and bullion	68.4	163.3	238.8	576.6	450.8	366.2
Spacecraft	554.0	598.5	257.3	80.0	0.1	
Specialized industrial machinery	14,351.9	15,276.8	16,565.2	12,839.4	12,990.3	10,914.2
Telecommunications equipment	8,131.7	9,138.7	9,965.8	23,233.8	22,230.4	23,469.0
Textile yarn, fabric	4,301.7	4,947.0	5,457.1	6,087.1	6,423.9	6,990.8
Toys/games/sporting goods	1,630.9	1,818.6	2,085.5	8,396.1	9,080.2	8,823.6
Travel goods	114.0	133.0	159.0	2,127.6	2,222.8	2,345.3
Vehicles/new cars, Canada	6,823.7	6,231.6	6,189.5	12,870.6	13,348.3	13,543.5
Vehicles/new cars, Japan	327.0	530.6	497.3	19,912.2	19,219.5	20,387.7
Vehicles/new cars, Other	2,274.3	2,464.6	3,077.2	11,370.7	12,542.0	10,853.2
Vehicles/trucks	2,842.8	3,083.9	3,869.2	8,807.2	8,579.8	8,261.4
Vehicles/chassis/bodies	207.3	206.9	239.9	1,095.0	518.3	406.8
Vehicles/part	13,224.8	14,463.1	14,301.5	15,248.3	15,230.0	14,073.0
Watches/clocks/part	177.3	209.2	225.3	907.7	2,247.3	2,286.6
Wood manufactures	1,064.9	1,222.2	1,244.0	2,028.7	2,034.4	1,907.8
Zinc	48.9	47.1	39.4	1,198.6	1,017.3	651.5
Other manufactured goods	17,281.1	22,245.5	25,108.7	28,042.9	30,604.6	30,064.2
Mineral fuel	10,124.0	12,233.4	12,033.3	52,778.9	64,661.4	54,342.7
Coal	4,087.1	4,636.2	4,720.3	84.1	288.1	309.3
Crude oil	205.4	137.1	35.4	35,529.2	43,784.8	37,153.2
Petroleum preparations	2,783.3	4,072.4	4,409.7	11,650.1	16,094.3	12,374.7
Liquified propane/butane	110.3	160.9	256.0	480.3	808.4	862.7
Natural gas	215.5	203.1	293.4	1,849.7	2,228.1	2,426.9
Electricity	189.3	493.2	53.7	521.2	462.5	486.7
Other mineral fuels	2,533.1	2,530.6	2,264.8	2,664.3	895.4	729.1
Selected commodities:						
Fish and preparations	2,396.2	2,800.7	3,056.3	5,388.8	5,192.1	5,638.3
Cork, wood, lumber	5,205.3	5,236.3	5,102.7	3,499.4	3,122.6	3,056.9
Pulp and waste paper	4,394.5	4,043.2	3,604.0	3,050.4	2,866.9	2,163.5
Metal ores; scrap	5,520.9	4,948.6	3,989.4	3,866.4	3,989.9	3,590.5
Crude fertilizers	1,359.1	1,266.1	1,367.1	1,145.8	1,129.1	987.0
Cigarettes	3,362.4	4,757.4	4,231.8	49.3	53.0	129.9
Alcoholic bev, distilled	222.4	254.3	279.0	1,587.7	1,724.9	1,594.3
All other	1,457.9	2,576.2	2,821.4	383.2	1,407.8	1,379.0
Re-exports	16,284.8	18,516.7	21,011.2	(X)	(X)	(X)
Agricultural commodities	885.0	847.9	856.9	(X)	(X)	(X)
Manufactured goods	14,851.1	17,119.0	19,525.8	(X)	(X)	(X)
Mineral fuels	127.3	150.9	223.0	(X)	(X)	(X)
Other, reexports	548.7	398.9	405.4	(X)	(X)	(X)
Timing adjustment	(X)	(X)	41.0	(X)	(X)	(X)

¹ Represents zero. ² Not applicable.

¹ F.A.S. basis. ² Customs value basis.

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade*, series FT 900, December issues.

No. 1337. Imports for Consumption—Values and Duties: 1970 to 1991

(Imports are on customs value basis. Beginning 1970, includes silver ores and bullion, and beginning 1980, includes trade of Virgin Islands with foreign countries. For basis of dollar values and for area coverage, see text, section 29. See also *Historical Statistics, Colonial Times to 1970*, series U 207-212.]

YEAR	VALUES				Duties calculated ¹ (mil. dol.)	RATIO OF DUTIES TO VALUES		Duties per capita ² (dollar)
	Total (mil. dol.)	Free (mil. dol.)	Dutiable (mil. dol.)	Percent free		Total imports (percent)	Dutiable imports (percent)	
1970	39,756	13,870	25,886	35	2,584	6.5	10.0	12.60
1975	96,516	31,030	65,486	32	3,780	3.9	5.8	17.50
1976	121,121	37,190	83,931	31	4,675	3.9	5.6	21.44
1977	147,075	43,633	103,442	30	5,485	3.7	5.3	24.91
1978	3172,912	51,827	121,125	30	7,162	4.1	5.9	32.17
1979	3205,850	103,278	102,645	50	7,202	3.5	7.0	31.99
1980	3244,007	106,992	132,951	45	7,535	3.1	5.7	33.09
1981	259,012	76,338	182,674	29	8,893	3.4	4.9	38.67
1982	242,340	75,856	166,484	31	8,688	3.6	5.2	37.40
1983	256,679	83,397	173,283	32	9,430	3.7	5.4	40.21
1984	322,989	102,977	220,012	32	12,042	3.7	5.5	50.90
1985	343,553	106,035	237,518	31	13,067	3.8	5.5	54.73
1986	368,657	121,742	246,915	33	13,312	3.6	5.4	55.10
1987	402,066	132,152	269,914	33	13,923	3.5	5.2	57.08
1988	437,140	151,693	285,447	35	15,054	3.4	5.3	61.12
1989	468,012	156,365	311,647	33	16,096	3.4	5.2	64.70
1990	490,554	161,108	329,446	33	16,339	3.3	5.0	65.38
1991	483,028	167,641	315,386	35	16,197	3.4	5.1	64.10

¹ Not available. ² Customs duties (including import excise taxes) calculated on the basis of reports of quantity and value of imports of merchandise entered directly for consumption or withdrawn from bonded customs warehouses. ³ Based on estimated population including Armed Forces abroad as of July 1. ⁴ Total includes revisions not carried to free and dutiable values.

Source: U.S. Bureau of the Census, 1970-1988, *Highlights of U.S. Export and Import Trade*, series FT 990, monthly; beginning 1989, *U.S. Merchandise Trade: Selected Highlights*, series FT 920, and unpublished data.

No. 1338. Domestic Exports and Imports for Consumption of Merchandise, by Selected SIC-Based Product Category: 1985 to 1991

[In millions of dollars. Includes nonmonetary gold]

SIC ¹ code	SIC-BASED PRODUCT CATEGORY	1985	1986	1987	1988	1989	1990	1991
(X)	Domestic exports, total²	212,961	216,555	243,859	310,346	349,433	374,537	400,842
	Agricultural, forestry and fishery products	20,074	15,968	17,718	24,464	27,198	26,225	25,052
01	Agricultural products	19,199	15,088	16,678	21,508	24,142	22,597	21,075
02	Livestock and livestock products	735	740	855	1,014	821	829	970
08	Forestry products	122	120	155	266	270	281	306
09	Fish, fresh or chilled; and other marine products ³	18	20	30	1,676	1,965	2,518	2,701
(X)	Mineral commodities	6,394	5,600	5,058	6,559	7,030	7,335	7,442
10	Metallic ores and concentrates	686	590	597	883	1,247	1,137	1,014
11.12	Bituminous, lignite and anthracite coal	4,485	3,930	3,368	4,014	4,287	4,513	4,623
13	Crude petroleum and natural gas	476	306	271	485	490	638	675
14	Nonmetallic minerals, fuels	767	774	822	1,177	1,006	1,047	1,130
(X)	Manufactured commodities	175,752	179,401	208,438	261,755	290,536	330,403	359,635
20	Food and kindred products	10,055	11,250	12,320	14,788	15,205	16,180	17,492
21	Tobacco manufactures	1,268	1,522	2,310	2,901	3,632	5,040	4,574
22	Textile mill products	1,462	1,653	1,891	2,415	2,794	3,635	4,108
23	Apparel and related products	1,019	1,213	1,518	1,824	2,349	2,848	3,679
24	Lumber and related products	2,668	3,018	3,961	5,326	6,050	6,523	6,477
25	Furniture and fixtures	483	466	550	841	1,011	1,589	2,086
26	Paper and allied products	3,886	4,479	5,676	7,197	8,126	8,631	9,214
27	Printing and publishing	1,250	1,298	1,525	1,996	2,598	3,150	3,590
28	Chemicals and allied products	21,797	22,562	26,090	31,722	35,825	37,806	41,483
29	Petroleum and coal products	5,433	4,228	4,479	3,926	5,019	6,794	7,026
30	Rubber and misc. plastics products	2,765	2,941	3,710	4,412	5,010	6,398	7,049
31	Leather and leather products	478	521	688	953	1,131	1,388	1,413
32	Stone, clay, and glass products	1,792	1,723	2,045	2,272	2,638	3,295	3,533
33	Primary metal products	4,747	4,803	5,806	12,362	12,110	13,116	15,243
34	Fabricated metal products	5,765	5,542	6,185	8,318	9,117	11,138	11,962
35	Machinery, except electrical	37,478	36,358	41,054	51,803	55,524	61,229	65,300
36	Electric and electronic machinery	18,908	20,415	24,359	27,033	32,718	39,807	42,330
37	Transportation equipment	38,024	37,977	42,371	49,768	56,875	68,113	76,172
38	Instruments and related products	8,623	9,237	10,191	17,160	17,327	19,524	21,699
39	Misc. manufactured commodities	1,773	2,080	2,719	4,443	4,553	4,296	4,621
(X)	Imports for consumption, total²	343,553	368,657	402,066	437,140	468,012	490,554	483,026
	Agricultural, forestry and fishery products	12,805	14,754	14,402	12,759	13,251	12,750	13,148
01	Agricultural products	7,483	8,792	7,444	5,786	6,109	5,925	6,107
02	Livestock and livestock products	933	993	999	1,235	1,290	1,453	1,501
08	Forestry products	830	786	933	1,326	1,235	1,015	978
09	Fish, fresh or chilled; and other marine products ³	3,559	4,183	5,026	4,412	4,617	4,357	4,562
(X)	Mineral commodities	39,011	27,780	33,615	31,540	41,264	51,391	44,581
10	Metallic ores and concentrates	1,265	1,318	1,130	1,126	1,425	1,500	1,244
11.12	Bituminous, lignite and anthracite coal	70	80	56	65	97	93	112
13	Crude petroleum and natural gas	35,872	24,463	30,843	29,573	38,842	48,917	42,415
14	Nonmetallic minerals, exc. fuels	1,804	1,919	1,586	776	900	881	810
(X)	Manufactured commodities	280,089	314,140	341,141	379,172	396,903	407,043	406,550
20	Food and kindred products	12,521	12,521	13,180	15,043	15,122	16,564	16,298
21	Tobacco manufactures	78	82	90	86	88	94	199
22	Textile mill products	3,616	4,136	4,697	5,506	7,294	6,807	7,132
23	Apparel and related products	15,710	18,171	21,503	20,890	22,841	24,644	25,497
24	Lumber and related products	5,105	5,374	5,959	5,720	5,848	5,446	5,229
25	Furniture and fixtures	3,220	3,997	4,575	4,796	5,148	5,235	5,130
26	Paper and allied products	7,493	7,983	9,461	11,001	11,880	11,669	10,431
27	Printing and publishing	1,200	1,488	1,583	1,776	1,807	1,849	1,878
28	Chemicals and allied products	12,790	13,281	14,400	18,602	20,118	21,611	22,999
29	Petroleum and coal products	18,282	12,836	13,123	11,027	11,979	14,472	11,097
30	Rubber and misc. plastics products	4,721	5,381	6,331	9,590	9,488	9,731	9,855
31	Leather and leather products	7,724	8,648	9,930	9,578	9,837	10,944	10,714
32	Stone, clay, and glass products	4,296	4,910	5,560	5,921	5,775	5,845	5,558
33	Primary metal products	20,439	22,580	19,254	25,075	25,563	23,232	22,262
34	Fabricated metal products	7,754	8,475	9,562	11,215	11,568	11,608	11,396
35	Machinery, except electrical	31,310	38,234	44,807	50,301	54,051	55,021	55,578
36	Electric and electronic machinery	37,951	42,734	46,566	52,539	55,316	55,736	58,610
37	Transportation equipment	65,944	79,887	84,347	86,717	87,972	89,599	88,004
38	Instruments and related products	8,805	10,646	11,547	15,430	15,364	16,846	18,668
39	Misc. manufactured commodities	11,130	12,776	14,666	18,359	19,844	20,090	20,015

X Not applicable. NA Not available. ¹ Standard Industrial Classification. ² Includes scrap and waste, used or secondhand merchandise, and manufactured commodities not identified by kind. ³ Includes frozen and packaged fish.

Source: U.S. Bureau of the Census, 1980-1988, *Highlights of U.S. Export and Import Trade*, series FT 990; beginning 1989, *U.S. Merchandise Trade*, series FT 900.